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FARMER SEED AND NURSERY CO.

FARIBAULT, MINN.
SEASON 1933

RECEIVED
★ FEB 7 1933 ★
U. S. Department of Agriculture.



"DOLGO CRAB"—THE NEW LAWN TREE—

MORE BEAUTIFUL THAN A MOUNTAIN ASH—FIERY RED FRUIT—UNEXCELLED FOR JELLY OR PRESERVES. BEARING SIZE TREES, 5-7 FEET. SPECIAL OFFER 2 TREES ONLY \$1.25. (SEE NEWEST FRUITS ON PAGES 30, 31, 38 AND 39.)

HOW TO GET A
"DOLGO" CRAB
TREE FREE —
ON PAGE 31

Special Offer 30-DAY LAWN GRASS

FOR A QUICK, VEL-
VETY, PERMANENT
LAWN

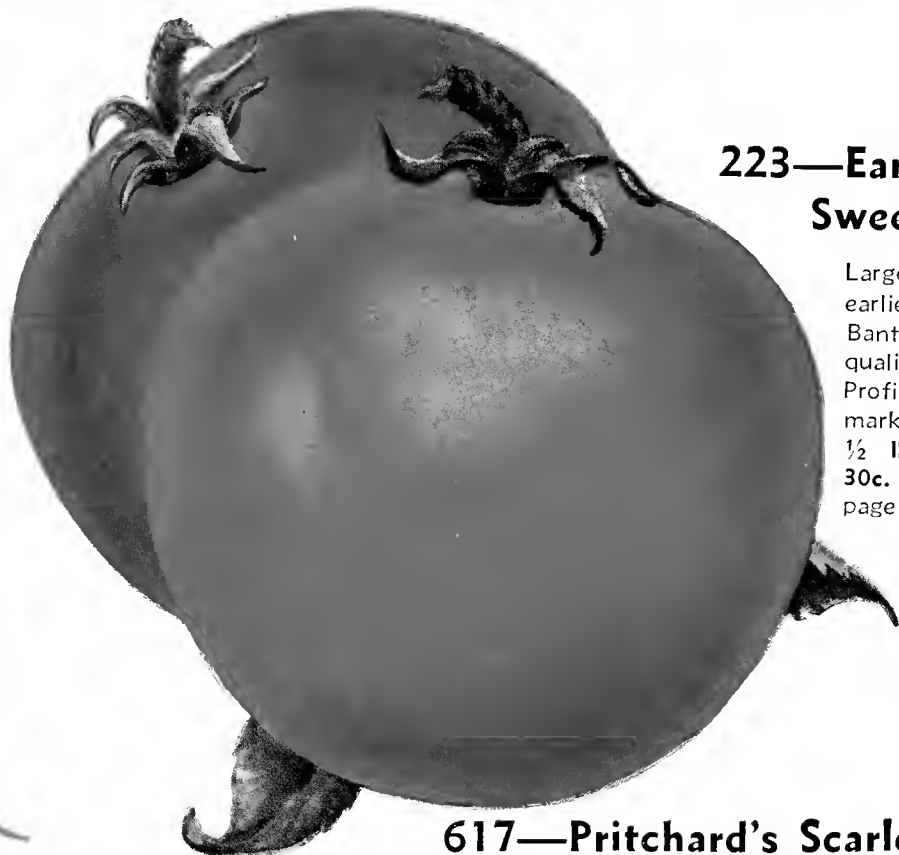
1 POUND — \$0.30
5 POUNDS — 1.25
10 POUNDS — 2.35
PREPAID TO 3RD ZONE

— THE NEWEST AND BEST IN VEGETABLES —



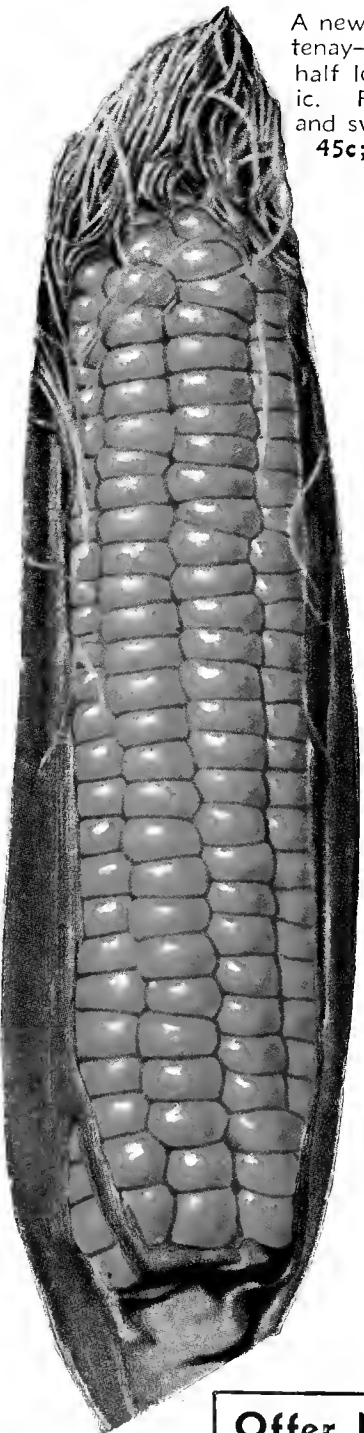
177— Red Cored Chantenay Carrot

A new strain of Chantenay—medium early, half long, very prolific. Flesh very crisp and sweet, with reddish core. Pkt., 10c; oz., 18c; ¼ lb., 45c; lb., \$1.50. Prepaid. See page 5.



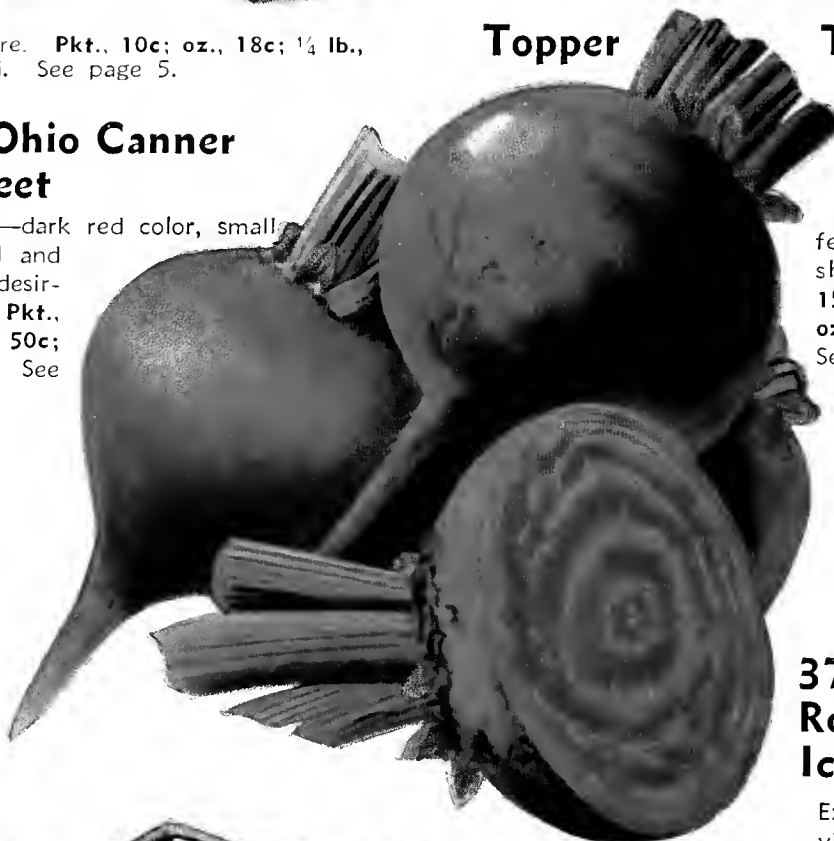
223—Early Sunshine Sweet Corn

Larger and 10 days earlier than Golden Bantam. Very fine quality and flavor. Profitable for early market. Pkt., 8c; ½ lb., 18c; lb., 30c. Prepaid. See page 10.



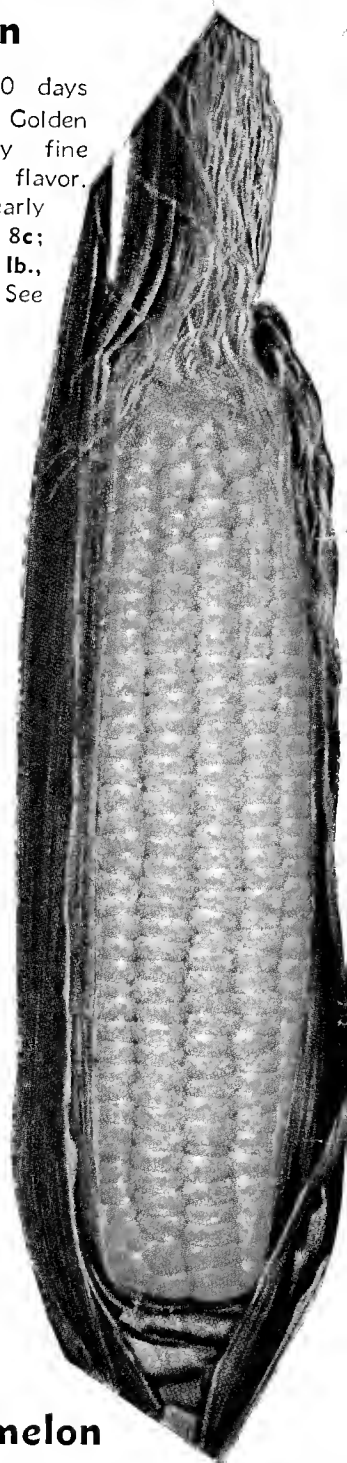
88—New Ohio Canner Beet

An all season Beet—dark red color, small top, uniform, round and tender. Especially desirable for canning. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50. Prepaid. See page 4.



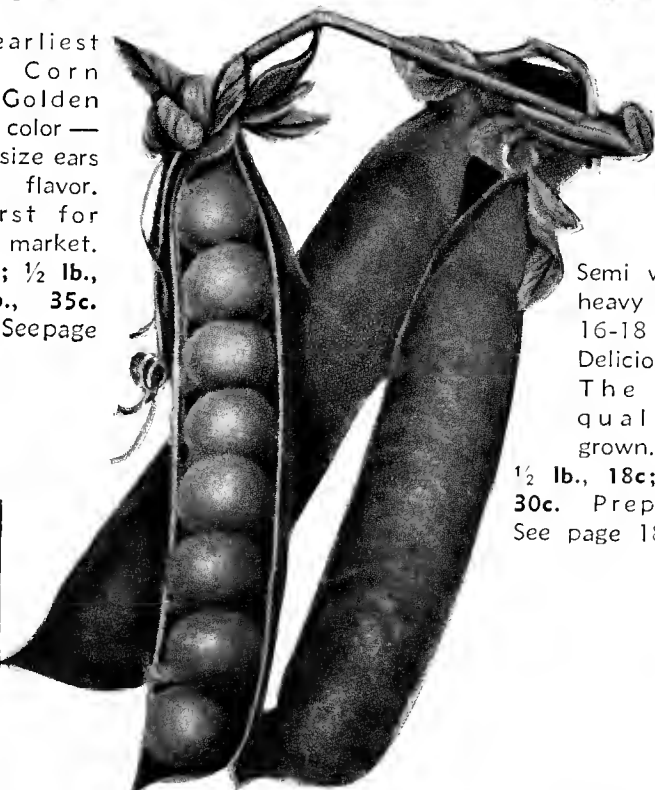
617—Pritchard's Scarlet Topper Tomato

Newest early Tomato of Marglobe type. Big yielder of solid fruit—few seeds. A fine shipper. Pkt., 15c; ½ oz., 45c; oz., 75c. Prepaid. See page 24.



228—Extra Early Golden Gem Sweet Corn

Very earliest Sweet Corn grown. Golden yellow color—medium size ears—fine flavor. The first for table or market. Pkt., 8c; ½ lb., 20c; lb., 35c. Prepaid. See page 10.

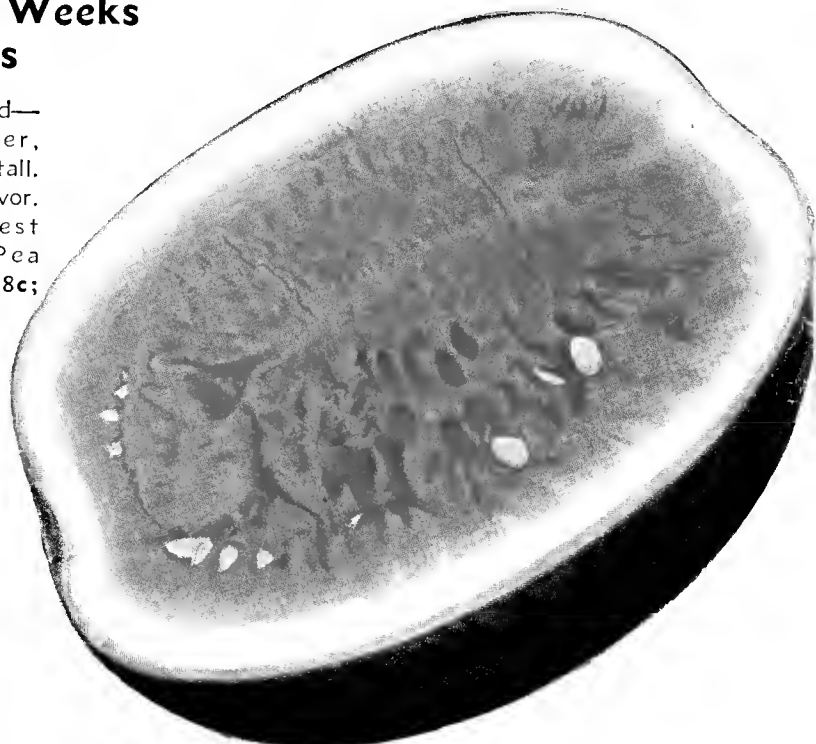


448—Extra Early Six Weeks Peas

Semi wrinkled—heavy yielder, 16-18 in. tall. Delicious flavor. The earliest quality Pea grown. Pkt., 8c; ½ lb., 18c; lb., 30c. Prepaid. See page 18.

371—Early Round Light Icing Watermelon

Extremely early—a big yielder—medium size fruit, nearly round. Flesh is crisp and sweet. Pkt., 5c; oz., 10c; ¼ lb., 35c; ½ lb., 60c. Prepaid. See page 15.



Offer No. 1
One pkt. each
the above 7 va-
rieties, 50c.

Your dealer will also supply these on request.

BLUE FIGURE PRICE LIST

Prices subject to market changes, stocks being unsold, bags included in weight.

THE FARMER SEED & NURSERY CO. guarantee all Red and Alsike Clover, also every lot of Alfalfa offered, to be strictly home-grown or northern grown seed, but give no warranty, express or implied, as to the descriptions, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. Purity and germination tests are given for guidance only, and without guarantee. If the purchaser does not accept goods on these terms, they are to be returned at once.

FARMER SEED & NURSERY CO.

Faribault, Minn., Jan. 18, 1933

Special Opportunity Lots for Early Buyers

LOT "RECOVERY" TIMOTHY AND ALSIKE MIXTURE

This wonderful Grass Mixture grows anywhere—even in slightly acid soil. Lot "Recovery" contains 20-25% Alsike Clover, best quality, no noxious weeds—the balance Timothy. The hay has wonderful feeding value—no other mixture can equal lot "Recovery" at the prices offered.

To early buyers, we offer the following special prices:

Prices: ¼ bu., 95c; ½ bu., \$1.65; bu. (50 lbs.), \$3.00; 100 lbs., \$5.50.

LOT "MINHARDY" VARIEGATED ALFALFA

Direct from the home state of Grimm Alfalfa. It must therefore be hardy or this strain could never have withstood the severe winters of the past 30 years. Lot "Minhardy" is of beautiful color—free from noxious weeds and represents the greatest value we can offer in hardy Alfalfa Seed this season. The crop is short—order early—only a limited amount of this seed available at the following special prices:

Prices: ¼ bu., \$3.30; ½ bu., \$6.40; bu., \$12.60; 100 lbs., \$19.25.

LOT "NEW DEAL" RED CLOVER

Never in our history have we offered real quality Minnesota grown Medium Red Clover at the price you can buy lot "New Deal" for right now. It is truly a new deal in value giving, and it will be a new deal in crop production and added fertility to your land. This lot is limited—contains no noxious weeds—Minnesota grown, plump seed of bright color.

Prices: Peck, \$2.15; bu., \$7.85; 100 lbs., \$12.75. Sacks included.

LOT "CERTIFIED" MINNESOTA-GROWN GRIMM ALFALFA

Not for sale in Minnesota or Wisconsin. Minnesota is the home of Grimm Alfalfa and here is a lot from some of Minnesota's own fields. You cannot find hardier or more dependable seed anywhere. We guarantee it free from noxious weeds. The seed comes to you sealed and with growers' affidavit but it is not state registered and that accounts for its extremely low price. While seed is available, we offer it at the following special prices:

Prices: ¼ bu., \$2.90; ½ bu., \$5.55; bu., \$10.85; 100 lbs., \$20.00.

LOT "SURPRISE" IDEAL SILO CORN

Like the early bird, the grower who takes advantage of this offer will profit handsomely. The catalog price will be higher and you are going to want Ideal Silo Corn when you find what others think of it and the profits it is making for growers. We have reserved 500 bushels for early orders and until sold, here are the special prices:

Prices: ½ bu., 70c; bu., \$1.10; 5 bu. @ \$1.05 bu.; 10 bu. @ \$1.00 bu.

LOT "PROGRESS" SWEET CLOVER

Here is the greatest value in a leguminous crop—a real soil builder and hay crop combined. One of our choicest lots of White Blossom Sweet Clover, South Dakota grown and free from noxious weeds—high germination. While unsold—

Prices: Peck, 90c; bu., \$3.10; 100 lbs., \$4.90. Sacks included.

MINNESOTA-GROWN CLOVER

NOXIOUS WEED FREE

(Bu. 60 lbs.)	Purity %	Peck	Bu.	100 lbs.
Prices include bags				
MEDIUM RED				
Master Farmer Brand.....	99.34	\$2.35	\$ 8.70	\$14.25
Fancy.....	98.00	2.25	8.30	13.50
MAMMOTH CLOVER				
Master Farmer Brand.....	99.40	2.40	9.05	14.75
WHITE DUTCH CLOVER				
Fancy.....	99.00	5.50	21.20	35.00
ALSIKE				
Master Farmer Brand.....	99.00	2.20	8.30	13.50
Fancy.....	98.00	2.15	8.00	13.00
ALSIKE AND TIMOTHY				
(Bu. 50 lbs.)				
20-25% Alsike.....	99.00	.95	3.20	6.00
30-35% Alsike.....	99.00	1.10	3.70	7.00
SWEET CLOVER, WHITE BLOSSOM				
Master Farmer Brand.....	99.50	1.00	3.45	5.50
Fancy.....	99.00	.95	3.30	5.25
SWEET CLOVER, GRUNDY COUNTY				
Master Farmer Brand.....	99.50	1.00	3.45	5.50
SWEET CLOVER, YELLOW BLOSSOM				
Master Farmer Brand.....	99.50	1.05	3.60	5.75
SWEET CLOVER, HUBAM ANNUAL WHITE				
Master Farmer Brand.....	99.00	1.60	5.85	9.50

ALFALFAS—U. S. VERIFIED ORIGIN

(NOTE—Registered and State Sealed Grimm is put up in 30-lb., 50-lb., 60-lb. and 100-lb. Sealed Bags.)

	Purity %	Peck	Bu.	100 lbs.
DAKOTA NO. 12 SOUTH DAKOTA OR MONTANA GROWN				
Master Farmer Brand.....	99.25	\$3.00	\$11.30	\$18.50
MONTANA DRY LAND				
Master Farmer Brand.....	99.25	3.00	11.30	18.50
NORTHWESTERN—IDAHO GROWN				
(Not to be confused with Kans. or Neb. seed).....	99.25	3.00	11.30	18.50
GRIMM—BLACK HILLS SOUTH DAKOTA STATE SEALED AND REGISTERED				
Blue Tag.....	99.50	3.95	15.20	25.00
White or Red Tag.....	99.00	3.80	14.60	24.00
GRIMM—MONTANA OR BLACKFOOT IDAHO—STATE SEALED AND REGISTERED				
Blue Tag.....	99.50	3.95	15.20	25.00
Red or White Tag—Montana.....	99.00	3.80	14.60	24.00
GRIMM—MINNESOTA STATE SEALED AND REGISTERED				
Blue Tag.....	99.50	4.10	15.65	25.75
GRIMM—MONTANA, MINNESOTA OR SOUTH DAKOTA GROWN—				
(Not for sale in Minn. or Wisc.)				
Sealed Bags—Growers' Affidavit.....	99.00	3.35	12.80	21.00
VARIEGATED—MINN., MONT., AND SO. DAK.—GROWN (Similar to Grimm)				
Master Farmer Brand.....	99.00	3.25	12.20	20.00
COSSACK—SOUTH DAKOTA OR MONTANA GROWN				
Registered—Blue Tag.....	99.25	3.95	15.20	25.00
Registered—White or Red Tag.....	99.50	3.80	14.60	24.00
Growers' Affidavit Sealed Bags.....	99.00	3.70	14.00	23.00

HARDY GRASSES

Prices include sacks	25 Lbs.	50 Lbs.	100 Lbs.
TIMOTHY (Bu. 45 lbs.)			
Master Farmer Brand.....	\$1.20	\$2.15	\$4.00
Fancy.....	1.15	2.05	3.75
TIMOTHY AND ALSIKE			
(Bu. 50 lbs.)			
20-25% Alsike.....	1.75	3.20	6.00
30-35% Alsike.....	2.00	3.70	7.00
BROMUS INERMIS.....	2.85	5.40	10.50
REED CANARY GRASS.....			
Per lb., 65c; 10 lbs., \$6.25.....	15.25	30.00	.....
Write for prices on larger quantities.			
ENGLISH RYE GRASS (Perennial).....	2.35	4.40	8.50
ORCHARD GRASS.....	2.75	5.20	10.00

Prices include sacks	25 Lbs.	50 Lbs.	100 Lbs.
KENTUCKY BLUE GRASS			
Master Farmer Brand.....	3.25	6.15	12.00
Extra Fancy.....	3.05	5.70	11.00
CREeping-BENT, "FAMOUS COOS COUNTY"			
10 lbs. @ 70 lbs.....	15.50	30.50	60.00
MEADOW FESCUE.....	2.25	4.20	8.00
RED TOP			
Master Farmer Brand.....	2.20	4.15	8.00
Fancy.....	2.15	4.10	7.75
LAWN AND GOLF MIXTURES.....	See Page 57		
SPECIAL PASTURE AND MEADOW MIXTURES.....	See Page 62		

Farmer Seed & Nursery Co's Blue Figure Price List

IMPROVED SEED GRAINS

Prices include sacks	Germ. %	Peck	Bu.	5 Bu. @	10 Bu. @
WHEAT (Bu. 60 lbs.)					
Hope—Rust and Smut Resistant.....95		\$0.40	\$1.20	\$1.10	\$1.00
Marquillo, Rust Resistant.....95		.40	1.15	1.05	.95
Ceres Rust Resistant.....95		.40	1.15	1.05	.95
Marquis Type, Minn.....95		.40	1.15	1.05	.95
Mindum Durum.....95		.40	1.20	1.10	1.00
SPELTZ OR EMMER (Bu. 40 lbs.)...92		.45	1.00	.90	.80
OATS (Bu. 32 lbs.)					
Minrus, Rust Resistant, Certified.....97		.35	.80	.70	.60
New Anthony, Rust Resistant, Certified.....97		.30	.70	.60	.50
Iogold, Rust Resistant, Certified.....98		.30	.65	.55	.45
Roosevelt.....97		.30	.70	.60	.50
Swedish Select Wis. No. 5.....97		.30	.70	.60	.50
Iowa No. 105.....98		.30	.65	.55	.45
Early Minnesota White.....97		.30	.65	.55	.45
Gopher, Certified.....98		.30	.70	.60	.50
Gopher, Not Certified.....98		.30	.65	.55	.45
Early Kherson.....98		.30	.65	.55	.45
BARLEY (Bu. 48 lbs.)					
New Era White Hulless.....95		.40	1.10	1.00	.90
Velvet, Minn. No. 447, Certified...97		.35	.95	.85	.75
Glabron, Minn. No. 445, Certified.....97		.35	.90	.80	.70
Wis. Pedigree No. 38, Certified...97		.35	1.00	.90	.80
SPRING RYE (Bu. 56 lbs.).....93		.40	1.20	1.10	1.00
FLAX (Bu. 56 lbs.)					
Red Wing, Certified, Rust and Wilt Resistant.....95		.60	2.05	1.95	1.85
Red Wing (Not Certified).....95		.55	1.95	1.85	1.75
Winona, Wilt Resistant.....95		.55	1.85	1.75	1.65
Blson, Rust and Wilt Resistant, Certified.....95		.55	1.95	1.85	1.75
Buda, Rust and Wilt Resistant...95		.55	1.95	1.85	1.75
Minn. No. 25 Primost.....95		.55	1.80	1.70	1.60
BUCKWHEAT (Bu. 50 lbs.)					
Japanese.....92		.40	1.20	1.10	1.00
Silver Hull.....92		.40	1.20	1.10	1.00
Mixed Varieties.....92		.40	1.15	1.05	.95

RAPE, CANE, KAFFIR CORN, MILLET

	10 Lbs.	25 Lbs.	50 Lbs.	100 Lbs.
RAPE				
Dwarf Essex.....	\$0.80	\$1.60	\$2.90	\$5.50
Dwarf Victoria.....	.85	1.70	3.15	6.00
SUGAR CANE				
Minnesota, Early Amber.....	.50	1.00	1.70	3.00
Early Orange.....	.45	.90	1.50	2.75
Southern Grown for Fodder.....	.40	.80	1.20	2.00
KAFFIR CORN.....	.40	.80	1.20	2.00
FETERITA.....	.45	.90	1.40	2.50
SUDAN GRASS.....	.50	.95	1.60	3.00
SUNFLOWER				
Mam. Russian.....	1.00	1.85	3.25	6.00
MILLET				
Golden or German Southern Grown..	.45	.85	1.40	2.50
Siberian.....	.45	.85	1.35	2.40
Hungarian.....	Write			
Common.....	.45	.80	1.30	2.25
Japanese (Billion Dollar Grass).....	.55	1.05	1.70	3.00
Broom Corn or Hog (Hersche).....	.40	.75	1.20	2.00
Early Fortune.....	.40	.75	1.20	2.00
Turghai—Proso.....	.50	.90	1.45	2.60

FIELD BEANS, PEAS, VETCHES

(Bu. 60 lbs.)	Peck	Bu.	100 lbs.
Canada Yellow Field Peas			
Master Farmer.....	\$0.85	\$3.00	\$4.75
Field Beans, Great Northern (See page 3).			
Field Beans, Robust Navy (See page 3).			
Vetches, Hairy or Winter (Mich. Grown).....	1.80	6.45	10.50

MINNESOTA-GROWN SEED CORN

Double Cross Hybrid Corn in peck, 1/2 bu., and 1 bu. State sealed bags; all other Certified Seed Corn in 1-bu., 2-bu., and 2 1/2-bu. State Sealed Bags.

Grown by us in Rice and Le Sueur Counties, Minn.

GERMINATION 95% and over—FIRE CURED

Prices include bags (Bu. 56 lbs.)	Peck	Bu.	2 1/2 Bu. @	10 Bu. @
NEW DOUBLE CROSS HYBRID				
I. X. E. Strain, Certified, Graded.....	\$1.00	\$3.00	\$2.85	....
E. X. K. Strain, Certified, Graded.....	1.00	3.00	2.85	....
NEW DOUBLE CROSS HYBRID BUTTS and TIPS, Certified.....				
Golden Jewel, Certified.....	.70	2.25	2.15	\$2.00
Golden Jewel, Not Certified.....	.50	1.70	1.60	1.50
Golden King, Certified.....	.45	1.45	1.35	1.25
Golden King, Not Certified.....	.50	1.70	1.60	1.50
Minnesota No. 13 Central Strain, Certified..	.45	1.45	1.35	1.25
Minnesota No. 13 Central Strain, Not Cer- tified.....	.50	1.70	1.60	1.50
Minnesota No. 13, Large Type, Certified....	.45	1.45	1.35	1.25
Minnesota No. 13, Large Type, Not Cer- tified.....	.50	1.70	1.60	1.50
Minnesota No. 13, Haney's Extra Early Strain, Certified.....	.45	1.45	1.35	1.25
Minnesota No. 13, Haney's Extra Early Strain, Not Certified.....	.50	1.70	1.60	1.50
Early Murdock, Golden Dent, Certified...	.45	1.45	1.35	1.25
Early Murdock, Golden Dent, Not Certified	.45	1.45	1.35	1.25
Golden Glow, Wis. No. 12.....	.45	1.45	1.35	1.25
Golden Glow, Cold Resistant.....	.45	1.45	1.35	1.25
Minnesota Ideal, Certified.....	.50	1.70	1.60	1.50
Minnesota Ideal, Not Certified.....	.45	1.45	1.35	1.25
Silver King, Wis. No. 7, Certified.....	.50	1.70	1.60	1.50
Silver King, Wis. No. 7, Not Certified....	.45	1.45	1.35	1.25
Rustler White Dent, Certified.....	.50	1.70	1.60	1.50
Rustler White Dent, Not Certified.....	.45	1.45	1.35	1.25
Northwestern Dent, Certified.....	.50	1.70	1.60	1.50
Northwestern Dent, Not Certified.....	.45	1.45	1.35	1.25

MINNESOTA-GROWN FLINT CORN

	Peck	Bu.	2 1/2 Bu. @	10 Bu. @
Canada Smut Nose.....	\$0.45	\$1.45	\$1.35	\$1.25
King Phillip.....	.45	1.45	1.35	1.25
Longfellow (Improved Minn.).....	.45	1.45	1.35	1.25

FODDER CORN

	Peck	Bu.	2 1/2 Bu. @	10 Bu. @
F. S. & N. Co's. Ideal Silo.....	\$0.45	\$1.45	\$1.35	\$1.25
Early or Late Yellow Dent Fodder.....	.35	.95	.85	.75
Yellow Dent, Butts and Tips.....	.30	.85	.75	.65
Early or Late White Dent Fodder.....	.30	.70	.65	.60
Red Cob Fodder, Southern Grown.....	.40	1.45	1.35	1.25
Evergreen Sweet Fodder Corn (48 lbs. Bu.)..	.60	1.80	1.70	1.60

SOY BEANS

(Bu. 60 lbs.)	Peck	Bu.	100 lbs.
Prices include sacks			
Illini.....	\$0.45	\$1.35	\$1.95
Manchu—Iowa Grown.....	.45	1.25	1.85
Manchu—Minn. Grown—Early Maturing.....	.45	1.35	1.95
Wisconsin Early Black.....	.70	2.50	3.90

MINNESOTA-GROWN SEED POTATOES

PRICES SUBJECT TO MARKET CHANGES

Bags free. If wanted in barrels, add 25c per bbl. of 3 bushels.

	Peck 1/2 Bu.	Bu.	5 Bu.	10 Bu. @
Kremer's Early White Gold.....	\$0.45	\$0.75	\$1.35	\$1.30
Early Bliss Triumph.....	.40	.65	1.10	1.05
Early Ohio.....	.35	.60	1.00	.95
Early Irish Cobbler.....	.35	.60	1.00	.95
Russet Rural.....	.35	.60	1.00	.95
Carman No. 1.....	.35	.60	1.00	.95
Rural New Yorker.....	.35	.60	1.00	.95
Green Mountain, Certified.....	.40	.65	1.05	1.00
Faribault Mammoth Prize.....	.40	.65	1.05	1.00
New Katahdin.....	1.25	2.00	....	....

How You can Make Better Profits in 1933 -

Celebrating 45 years of continuous growth—
the result of dependable quality seeds and
fair dealing with all of our customers.



E. J. KIEKENAPP
PRES. AND GEN. MGR.

TO ALL OF OUR GOOD FRIENDS:

Agricultural conditions must improve. They cannot do otherwise. Proper legislation will do its part and relief measures will be enacted in 1933. However, you alone must act now, by planning wisely what to plant for profit this coming year. Never before have quality seeds cost less to

plant. Never before has quality meant more, to bring the extra margin in price that spells profit. Never before was it so important to grow crops for which there is a demand, and that are not over-produced.

It has been our aim to point these out to you in this new Annual. We have listed the outstanding money-makers and given facts that are borne out by the U. S. Experiment Stations. As always, "Master Farmer" seeds stand for quality foremost. They guard your acres against noxious weeds. Where hardiness is a factor, northern origin is well worth more in price. However, our prices are so extremely reasonable, it would be folly to take chances elsewhere.

A hearty thanks to our old friends for their loyalty in the past. We hope to serve you all again in 1933, and a great many new friends as well.

Sincerely,
 E. J. KIEKENAPP,
 President.

C. O. D. SERVICE

For your convenience we offer to ship Garden and Flower Seeds C. O. D. Simply pay the postman or Express Co. the amount due, on delivery, plus a small charge for returning the remittance. No money need be sent with the order except for Farm Seeds or perishable articles, such as Potatoes, Bulbs or Nursery Stock, in which case send 25% of the amount due, with the order. We will hold for later shipment any order upon which 25% of the amount has been paid and protect you against price advances.

FREIGHT AND EXPRESS SHIPMENTS. We have excellent shipping facilities. State whether you want freight or express shipment made. Transportation charges are paid by the customers, except on items marked postpaid. If no shipping instructions are given, we will use our best judgment.

POTATOES, ONIONS, BULBS, PLANTS AND NURSERY STOCK are shipped when weather conditions permit, and customers are then notified of shipment.

SAFE DELIVERY ASSURED. Should a shipment reach you in bad condition, notify us at once. Have agent make proper notations on your expense bill. If yours is a prepaid station, full transportation charges must be sent with the order.



24-HOUR SERVICE

Every page in this new Annual offers suggestions for better returns from your garden or farm by proper selection of the new and improved varieties of farm and garden crops.

You cannot help but profit if you study these pages, plan carefully, and depend on "Master Farmer" seeds to give you the extra quality that brings a better price.

ORDERING SIMPLIFIED

USE OUR ORDER SHEET. It will help us and save time in filling your order. Write any instructions on a separate sheet.

KEEP A COPY OF YOUR ORDER AND CHECK IT WHEN IT ARRIVES. We take every care in filling all orders correctly. However should you find anything unsatisfactory, advise us at once—we are always willing to make things right. Be sure to write your name and address plainly.

SENDING MONEY. Postoffice money orders, bank drafts or express money orders are always safe. Stamps up to \$1.00 are acceptable. Never send cash in a letter unless registered. Doing so will be at your own risk.

Please don't send checks under \$1.00—send stamps or cash. Allow 10c exchange on all checks to cover charges by banks. We will include extra seeds to adjust.

PARCEL POST SHIPMENTS. Packages weighing 70 pounds can be sent into all zones. Poisons cannot be sent by mail. We prepay postage and express charges on items marked prepaid in the catalog. Orders of ten pounds or more to the 5th zone, or farther, usually travel more cheaply by express than parcel post.

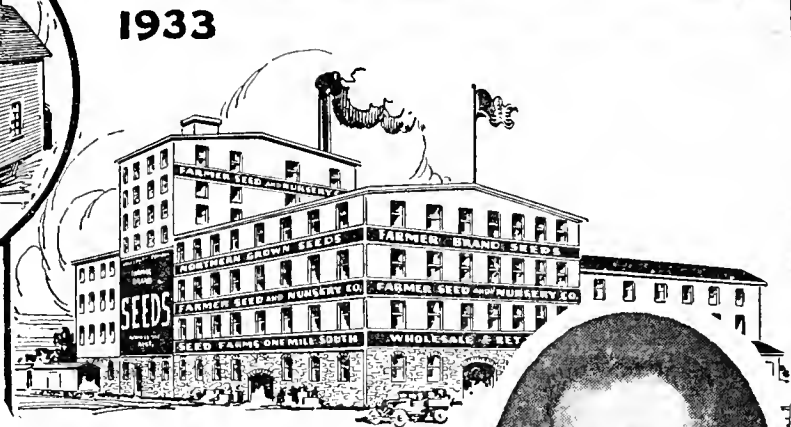
PARCEL POST RATES.

Zone	Distance up to	For First Pound	Each Pound, Additional
1st and 2nd	.....150 miles	8c	2c
3rd	.....150-300 miles	9c	2c
4th	.....300-600 miles	10c	4c
5th	.....600-1,000 miles	11c	6c
6th	.....1,000-1,400 miles	12c	7c
7th	.....1,400-1,800 miles	14c	9c
8th	.....over 1,800 miles	15c	11c

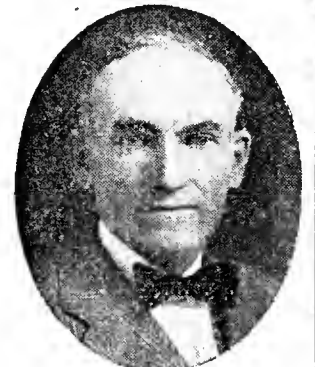
In estimating parcel post charges be sure to make allowance for packing. A fraction of a pound takes full pound rate. Faribault is 50 miles south of St. Paul.

OUR RESPONSIBILITY. For 45 years we have given all of our customers a square deal and refer you to any bank in Faribault.

OUR GUARANTEE. We sell dependable, carefully tested seeds only. Should failures result from any fault of the seed, we will refund your money. Seeds, Trees, Bulbs and Plants are subject to climatic conditions over which we have no control, therefore the Farmer Seed & Nursery Co. gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any Seeds, Plants or Bulbs they sell and they will not be responsible for the crop.



CHAS. DUFFINA
SECY.-OFFICE MGR.



N. C. BIETER
VICE PRES.
MGR. FARM SEED DEPT.



L. P. VASSAR
SEED ANALYST AND CORN BREEDER



GEO. SIEVERS
MGR. GARDEN AND
FLOWER SEED DEPT.

FIFTY ONE-DOLLAR CASH PRIZES FOR THE 50 BEST REPORTS

We are interested in your success and are anxious to know the result you are having with our products. Many of our customers delight in telling their neighbors and friends of the success they are having. That's fine and it accounts for the continuous growth of our business.

However we appreciate such news also. So write us about the prizes you have taken, the big yields and the profits made through the varieties we have recommended. Send a photo if possible, and give your own opinion. To each of the senders of the fifty best reports, selected by a committee from the Faribault Chamber of Commerce, we will send \$1.00 cash and the prize winners will be announced in the 1934 Annual. Contest closes Nov. 1st, 1933.

\$50.00
IN CASH
PRIZES

OUR TRIAL GARDENS

ON U. S. HIGHWAY NO. 65—NORTH
OF CITY LIMITS, FARIBAULT.

Here, all varieties of Vegetable and
Flower Seeds are tested for type, germi-
nation and productiveness.

Visitors are always welcome to inspect
these gardens.

Main plant, warehouse and retail store
on West Fourth Street, near Milwaukee
tracks—on State Highway No. 60.

Our standard varieties of Garden and
Flower Seeds are on sale at Leading
Dealers throughout the Northwest.



Field of One-Year-Old
Washington Asparagus.

ASPARAGUS

CULTURE—Sow one ounce of seed to 50 ft. of
drill—five lbs. to the acre. Sow in drills one foot
apart and one inch deep. Keep soil mellow. Thin
plants to four inches apart—transplant the follow-
ing spring to permanent beds. Asparagus Culture
Leaflet free.

**5. WASHINGTON RUSTPROOF ASPAR-
AGUS**—Best variety of the present day—uniform-
ly rust-resistant—producing large, straight shoots,
with tips tight and firm. Color is deep green, with
heavy overtones. The most popular market variety.

Seed—Pkt. 10c, oz. 20c, ¼ lb. 45c, lb. \$1.25.

ASPARAGUS ROOTS

WASHINGTON RUSTPROOF—Modern mar-
ket gardeners will grow no other variety. It is the
most profitable and satisfactory variety. A rapid
grower, of excellent flavor and rust-resistant; dark
green and of beautiful appearance when bunched.
Our one-year roots are exceptionally large and
vigorous. (See illustration.)

25 for 55c, 50 for 90c, 100 for \$1.50, prepaid.
See page 26 for Vegetable Roots and Plants.

A complete index will be found on page 76.

BUSH BEANS

GREEN PODDED

One pound will plant about 50 hills—90 pounds will plant an acre.
See culture on page 3.

21. NEW TENDERGREEN STRINGLESS—This new
variety will be welcomed by both home and market gardeners. From
the first to the last picking, it is snappy and tender—absolutely
stringless with round, meaty pods about six inches long. Ripens
with the early varieties. Gardeners take note—watch the fancy vege-
table trade go for these beans. Their fine quality and appearance
make them sell on sight. (See illustration, back inside cover.)
2¼ oz. pkt. 10c, ½ lb. 20c, lb. 35c, 2 lbs. 65c, prepaid.—Not pre-
paid, 5 lbs. \$1.25, 15 lbs. at 20c per lb.

22. GIANT STRINGLESS GREEN POD—Different from
Burpee's Stringless Green Pod. Plants make vigorous growth and
produce heavily. Pods five inches long, light green, slightly curved
and very meaty. They are entirely stringless and a favorite canning
variety. You will not be disappointed if wanted for market or
canning. 2¼ oz. pkt. 5c, ½ lb. 15c, lb. 25c, 2 lbs. 45c, prepaid.—
Not prepaid, 5 lbs. \$1.00, 15 lbs. at 17c per lb.

25. BURPEE'S STRINGLESS GREEN POD—The best all
around green bean for the home garden and market. It is early,
very prolific and absolutely stringless. The pods are round, deep
green in color, straight and broad, with thick, meaty flesh that is very
tender and of fine flavor. For a succession of crops, plantings should
be made at intervals of two weeks until August. Canners grow this
variety almost exclusively, because of its fine quality and depend-
ability. Seed is light brown. 2¼ oz. pkt. 8c, ½ lb. 17c, lb. 30c,
2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. at 18c per lb.

27. BOUNTIFUL OR SIX WEEKS—A bountiful yielder,
extra early, with large, flat tender pods which are absolutely string-
less. An improved Long Green Six Weeks, being earlier, harder and
producing many more, better and larger pods. Valuable for the mar-
ket and home garden. Light yellow seed. 2¼ oz. pkt. 8c, ½ lb.
17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs.
and more at 18c per lb.

28. BLACK VALENTINE—Pods are straight, dark green
color, six inches long. Very productive—mature early and are blight
resistant. 2¼ oz. pkt. 5c, ½ lb. 15c, lb. 25c, 2 lbs. 45c, prepaid.—
Not prepaid, 5 lbs. \$1.00, 15 lbs. at 17c per lb.

29. FULL MEASURE—(Round Pod Stringless.) A fine string-
less, medium-sized green pod bean of high quality. Pods are straight,
about 6 inches long, fleshy, almost round and very tender. A very
prolific early sort, producing throughout the season. One of the best
green pod bush beans for the home garden. 2¼ oz. pkt. 8c, ½ lb.
17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs.
and more at 18c per lb.



Full Measure, Round Pod Stringless.



Bountiful Stringless.

Use McQUEEN'S INOCULATOR.
A 15c pkt. will treat 5 lbs. Beans.

BUSH BEANS—Wax Podded

One pound of seed will plant 50 feet of row, 90 pounds per acre, in drills.

CULTURE—Beans should be sown after May 15th, when the ground is thoroughly warm. Make successive sowings, 2 weeks apart, for a supply of beans all summer. Sow in drills 15 inches apart, 2 inches deep, dropping the beans 3 inches apart in the rows, eyes down and cover. Cultivate often. Do not walk through or pick beans when wet with dew or rain.

9. ROUND POD BRITTLE WAX—Exceptional quality, perfectly round pods 5 to 6 inches long. Very vigorous plants—surprisingly productive and entirely stringless. Seeds are almost white with black eye. Makes an excellent winter shell bean, as well as for spring market or canning. Ready for the table in 45 days. $2\frac{1}{4}$ -oz. pkt. 8c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. or more, at 18c per lb.

10. FARIBAULT KIDNEY WAX—The strong plants are of erect bush habit, reach the height of 18 to 20 inches and are immune to blight and rust. The fleshy pods are flattened in form, from 6 to 7 inches in length, $\frac{1}{2}$ inch broad and of lemon yellow color; they are remarkable for their meatiness, brittleness, absolute freedom from strings or tough fibre and fine table quality. Seed is white, with black eye. $2\frac{1}{4}$ -oz. pkt. 8c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not Prepaid, 5 lbs. \$1.00, 15 lbs. and over, at 18c per lb.

11. PROLIFIC BLACK WAX OR BUTTER BEAN—This is no doubt the earliest and one of the most productive of all beans, and is rust-proof. Vines medium sized, very vigorous and hardy. Pods are medium length, borne well up from the ground, cylindrical, fleshy; of a clear, creamy white color and remain a long time in condition for use as a snap bean. Pkt. 5c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. and over, at 18c per lb.

12. BLACK PENCIL POD WAX—The best quality round pod early wax bean. Of bushy growth and extremely productive. Pods are straight, round, 6 to 7 inches long; thick, absolutely stringless, of fine flavor; color medium yellow. The seed is black. High quality sort for the home garden or market gardener. Pkt. 5c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 50c, prepaid.—Not prepaid, 5 lbs. 90c, 15 lbs. and over, at 17c per lb.

13. IMPROVED GOLDEN WAX—A well known standard variety that is largely planted everywhere. Medium early, of vigorous bushy growth, rustproof. A reliable heavy cropper whether sown in spring, summer or early fall. Pods long, flat, thick and solid; seed is speckled. Pkt. 5c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 50c, prepaid.—Not prepaid, 5 lbs. 90c, 15 lbs. and over, at 17c per lb.

Sure Crop Stringless.

15. SURE CROP STRINGLESS WAX—A very fine wax podded bush bean, of remarkable vigor and productiveness, free from blight and rust, and very hardy. The pods are rich golden yellow, perfectly stringless at all stages of growth, very brittle, crisp and tender, and of delicious flavor. Seed is black. Sure Crop Stringless Wax is a fine variety for dry sections. $2\frac{1}{4}$ -oz. pkt. 8c, $\frac{1}{2}$ lb. 20c, lb. 35c, 2 lbs. 65c, prepaid.—Not prepaid, 5 lbs. \$1.25, 15 lbs. and over, at 20c per lb.

17. WARDWELL'S KIDNEY WAX—This variety, maturing a little later than the Golden Wax, yields a large crop of long, flat, nearly straight pods, creamy white in color, which are of good quality and always command a ready sale. Seed is white with dark eye. One of the best and most productive for market gardeners. Pkt. 5c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. and over, at 18c per lb.

16. UNRIVALLED ROUND POD WAX

The earliest wax podded bean grown. Creamy yellow pods, symmetrical in shape, about 6 inches long, thick, meaty, and wonderfully tender. The plant is strong, dwarf and bushy, with large, smooth, lustrous green leaves. Both plant and pods are exceptionally free from rust and blight. $2\frac{1}{4}$ -oz. pkt. 8c, $\frac{1}{2}$ lb. 20c, lb. 35c, 2 lbs. 65c, prepaid.—Not prepaid, 5 lbs. \$1.25, 15 lbs. at 20c per lb.

19. EARLY WONDER WAX—Ten days earlier than any other wax bean. It belongs to the flat podded class and grows a strong plant 18 inches high and two feet across. The pods are very large, eight inches in length, entirely stringless, plump, almost solid meat, tender and of superb flavor. Seed is yellow. Pkt. 5c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. at 18c per lb.

POLE OR RUNNER VARIETIES

Pole beans will bear for a much longer season than bush beans, and are more productive.

Plant in hills 3 feet apart each way, sowing 4 to 6 beans to a hill. Stake with poles 7 feet high, and pinch back plants reaching the tops.

56. GOLDEN CLUSTER WAX—The best yellow podded climber. Pods 8-10 inches long. Very brittle. Enormously productive and of excellent flavor. Pkt. 8c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.10, 15 lbs. at 18c per lb.

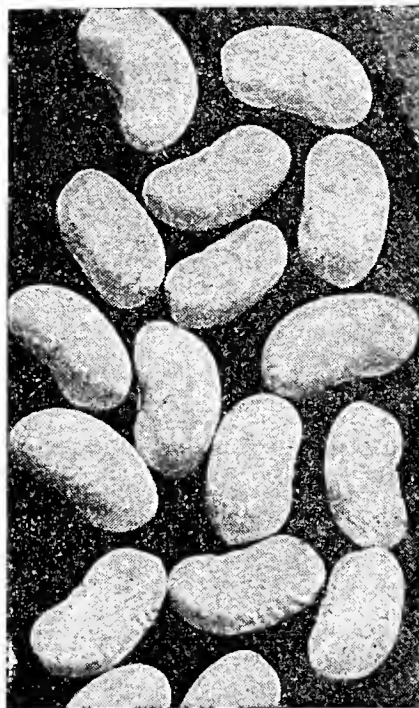
60. OLD HOMESTEAD OR KENTUCKY WONDER—A green pole bean, very productive and early. Pods are 7 to 9 inches long, fleshy, tender, and stringless when young. Seed is brown. If kept picked, the vines will bear all summer. $2\frac{1}{4}$ -oz. pkt. 8c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.10, 15 lbs. and more, at 18c per lb.

61. SCARLET RUNNER—A shell bean that is both useful and ornamental, with bright scarlet flowers, followed by long straight pods of delicious flavor. A fine sort for covering fences, etc. $2\frac{1}{4}$ -oz. pkt. 8c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.

FIELD BEANS

40. GREAT NORTHERN—The most delicious baking bean grown. A wonderful yielder and one of the most profitable beans that can be raised. Great Northern is a much better bean for baking and cooking than any Navy bean; as it cooks in two-thirds of the time, and is of much better flavor. Beans are larger and softer than common Navy beans. Pkt. 5c, $\frac{1}{2}$ lb. 12c, lb. 20c, 2 lbs. 35c, prepaid.—Not prepaid, 5 lbs. 60c, 15 lbs. at 10c per lb.

41. ROBUST NAVY—Plants are of decidedly robust growth, developing strong roots after setting pods. Beans are clear white, a trifle smaller than the Navy bean. Pkt. 5c, $\frac{1}{2}$ lb. 12c, lb. 20c, 2 lbs. 35c, prepaid.—Not prepaid, 5 lbs. 50c, 15 lbs. and more, at 7c per lb. See Blue Figure List for quotations on larger quantities.



Great Northern Beans.

53. BURPEE'S GIANT PODDED POLE LIMA—The largest podded of all Pole Limas, the pods measure from 7 to 8½ inches in length, with a width of 1½ to 2 inches. The green shell beans are extra large, and of superb flavor. Vines attain a height of 10 to 12 feet. Pkt. 10c, $\frac{1}{2}$ lb. 25c, lb. 45c, 2 lbs. 80c, prepaid.—Not prepaid, 15 lbs. at 25c per lb.

LIMA BEANS

One pound will plant a row 50 feet long.

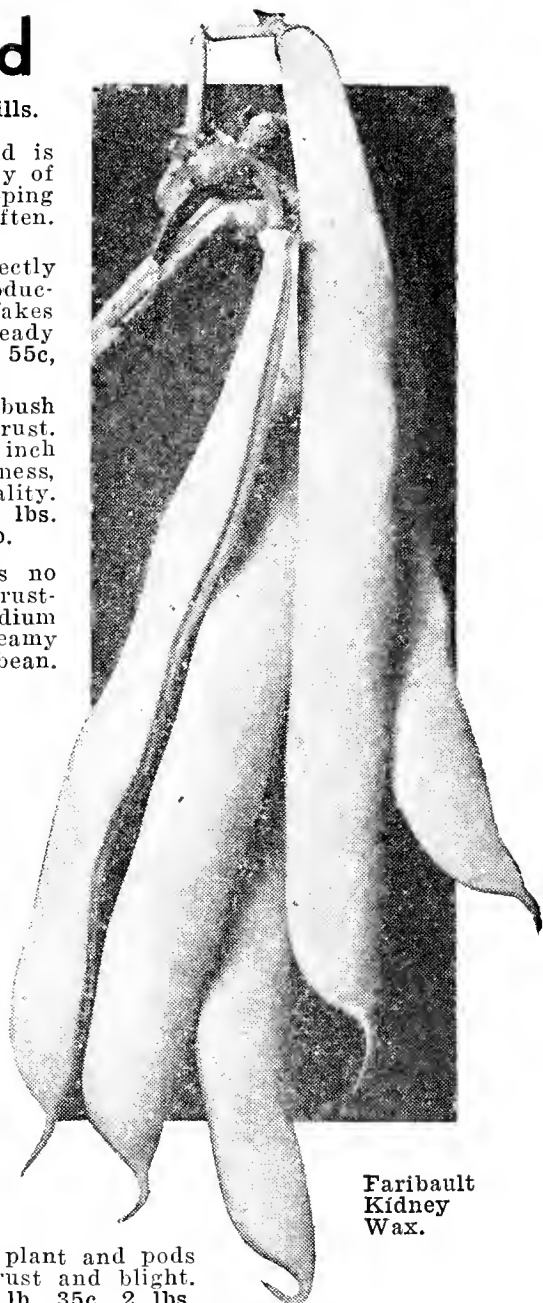
Lima Beans, tender and fresh from the garden, are the most delicious of all beans. The young green Baby Lima Beans are wonderful when canned.

CULTURE. Bush Limas should be planted in rows 3 feet apart in rich soil, 6 to 10 inches apart in the row, always setting the seed with the eye down. Plant about 3 inches deep.

50. FORDHOOK BUSH LIMA—Plants grow from 15 to 20 inches high, very bushy, and bear abundantly. Pods are produced in clusters of 4 to 8, and are well filled with big, plump, buttery beans of delicious flavor. Pkt. 8c, $\frac{1}{2}$ lb. 30c, lb. 50c, 2 lbs. 90c, prepaid.—Not prepaid, 5 lbs. \$2.00, 15 lbs. and more, at 35c per lb.

51. BURPEE'S IMPROVED BUSH LIMA—The plants grow 18 to 20 inches in height, and develop into magnificent bushes from 2 to 3 feet in diameter and are immense yielders. The pods are large and well filled with luscious beans of large size. Pkt. 8c, $\frac{1}{2}$ lb. 20c, lb. 35c, 2 lbs. 65c, prepaid.—Not prepaid, 5 lbs. \$1.75, 15 lbs. and more, at 25c per lb.

52. HENDERSON BUSH LIMA—The earliest Bush Lima, adaptable to all latitudes, and a sure cropper. It resists drought well, and is ready for use in about 60 days. It forms a bush about 18 inches high. The beans are small, flat and tender, and of delicious flavor. Pkt. 8c, $\frac{1}{2}$ lb. 17c, lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.10, 15 lbs. at 18c per lb.



Faribault Kidney Wax.

TABLE BEETS

Sow 1 oz. to 50 ft. of drill—5 lbs. per acre.

CULTURE—The soil for beets should be rather light and well enriched. Sow in drills one foot apart and one inch deep, as early as the ground can be worked; continue for a succession as late as the middle of July; when the plants are large enough, thin out to stand six inches apart.

For the home garden, Early Winesap is the most tender early beet; Detroit Dark Red, Crosby's Egyptian and Ohio Canner are the best main crop sorts.

83. EXTRA EARLY WINESAP—This variety is unequalled for family use or for market gardeners. Its remarkable uniform type, its beautiful dark red color, and its tender and delicious flavor, makes Winesap one of the best for all around use. For earliness, good shape, absence of white ring, we consider it one of the best sorts introduced in a long time. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.00, 2 lbs. for \$1.85, prepaid.

84. EARLY WONDER—An early variety, which matures very rapidly and is fine for the home garden, market or canning. The beets are nearly globe-shaped, with small tops and a small tap root. The flesh is dark red in color, and of superior quality. Pkt. 5c, oz. 10c, 1/4 lb. 30c, lb. 85c, 2 lbs. for \$1.60, prepaid.

85. DETROIT DARK RED—This is the standard deep red turnip beet, grown everywhere not only by market gardeners and canners, but also by home gardeners. It matures early, and on account of the small tops, the rows may be planted close together. Leaf stems and veins are dark red, blade is green; the root is globular and very smooth; color dark red. The flesh is deep vermilion red, zoned with darker red, very crisp, tender and sweet. Pkt. 5c, oz. 10c, 1/4 lb. 30c, lb. 85c, 2 lbs. for \$1.60, prepaid.

86. CROSBY'S IMPROVED EGYPTIAN—This variety is sown where an extra early beet is wanted for forcing in frames, as well as for first sowing outside. Ready for use sooner than any other kind. The roots are of even shape; the flesh is bright red with zones of a darker shade; fine quality; sweet and tender. A standard market gardener's sort, excellent for bunching. Pkt. 5c, oz. 10c, 1/4 lb. 30c, lb. 85c, 2 lbs. for \$1.60, prepaid.

88. OHIO CANNER—A selection of Detroit Dark Red—the result of years of inbreeding, and a Beet most desirable for home or market. The color is deep blood red, fine even form, uniform in growth, tender, sweet and free from stringiness. Its uniform, round, medium early roots and dark red color makes it an ideal canning Beet. See illustration inside front cover. Pkt. 10c, oz. 20c, 1/4 lb. 50c, lb. \$1.50, 2 lbs. for \$2.75, prepaid.

89. EARLY BLOOD TURNIP—Perfectly smooth and round; skin and flesh intense red. This variety is one of the first to be ready for the table. It does not grow large, but is desirable for its earliness and sweet tender quality. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 75c, 2 lbs. for \$1.45, prepaid.

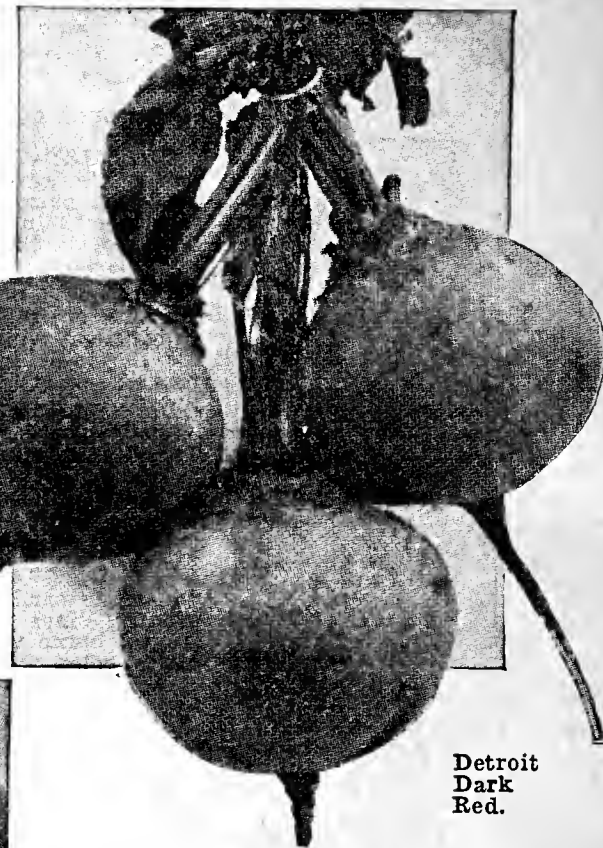
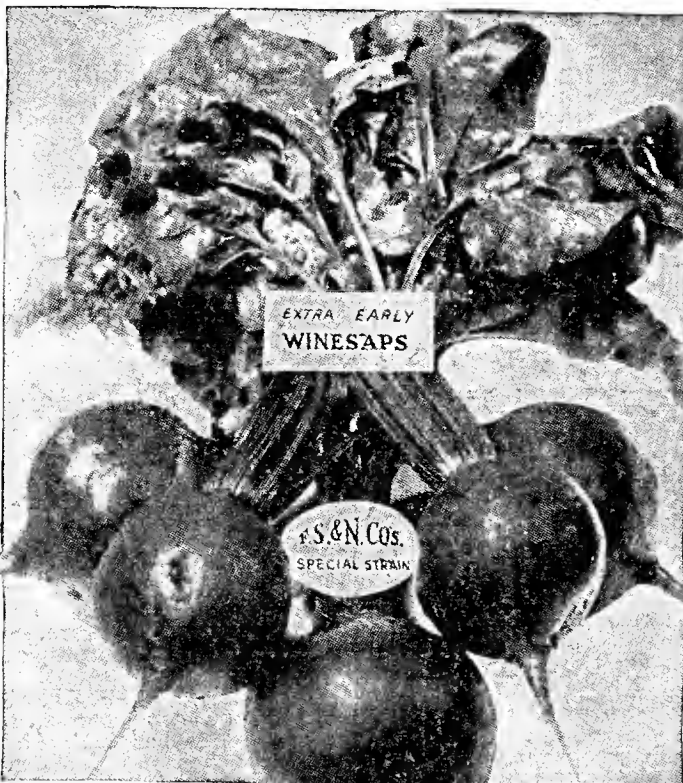
SPINACH BEET OR SWISS CHARD

Swiss Chard produces more food than any other vegetable, in proportion to the space required. The leaves are used for greens, and are of much milder flavor, and more delicate texture, than spinach. It will produce a constant crop from early summer until winter. The leaves grow very large, with broad, flat stems. Cook like asparagus.

98. LUCULLUS—A new moss curled sort, with enormous leaves of tender quality and good flavor. Better in flavor than spinach, and much easier to prepare on account of its heavy foliage. Pkt. 5c, oz. 10c, 1/4 lb. 30c, lb. 85c, 2 lbs. for \$1.60, prepaid.



Swiss Chard.
One of the
most healthful
greens—rich in
vitamines.



Detroit
Dark
Red.

BRUSSELS SPROUTS

70. One of the most delicious vegetables for winter use, of mild cabbage flavor. Plants grow quite tall, the stems being covered with tiny cabbage-like sprouts, that are firm and hard. Cook the small heads and serve with butter or a cream sauce.

Start the seed indoors, the same as cabbage, and transplant to the garden in May. Pkt. 10c, oz. 20c, 1/4 lb. 60c, prepaid.

BROCCOLI

80. ITALIAN GREEN SPROUTING—A novelty of the Cauliflower family which, after the first head has been harvested, produces branching sprouts on which are small, loose heads 2 inches in diameter. They have a delicate flavor and are most delicious. Pkt. 10c, 1/2 oz. 35c, oz. 60c, 1/4 lb. \$1.75.

For
Illustration
See page 7.

MANGELS

An ounce will sow 100 feet of drill, 5 lbs. will sow an acre.

Mangels are of high feeding value for all livestock. They keep hens healthy, and stimulate egg production. Feed at the rate of 25 lbs. to 100 hens per day, with grain.

CULTURE—Sow at corn planting time—in drills 2 to 2 1/2 feet apart, on rich moist land, the seed should be planted an inch deep; on dry and sandy soil, it must be planted 1 1/4 to 1 1/2 inches deep. Thin out to stand 8 inches apart in rows.

105. MINNESOTA GOLDEN TANKARD—The best yellow mangel in cultivation. Flesh is firm, solid, rich golden yellow in color, and contains more sugar than the red mangels. Roots are of cylindrical shape, with small necks, and are easy to harvest.

106. MAMMOTH LONG RED—This is considered the best long red mangel, and is of massive size and shape, fine texture and high feeding value. The roots grow well above the ground and are easily harvested. An enormous yield, best adapted for deep soil.

107. GIANT RED ECKENDORF—Roots are smooth, of cylindrical shape, weighing 15 to 20 lbs. each. Flesh is white and firm, with large amount of nutritive value.

108. GIANT SLUDSTRUP—Roots are long, reddish yellow in color, growing more than half above the ground. This variety is considered the best by Danish growers, surpassing all others in feeding value and yield.

117. GIANT HALF SUGAR—Roots grow partly out of the ground and are easily harvested; they are large, firm, smooth, clean, and of oval shape. Skin is light bronze green above and white below the ground; flesh is white, crisp and sweet. Highest in sugar content.

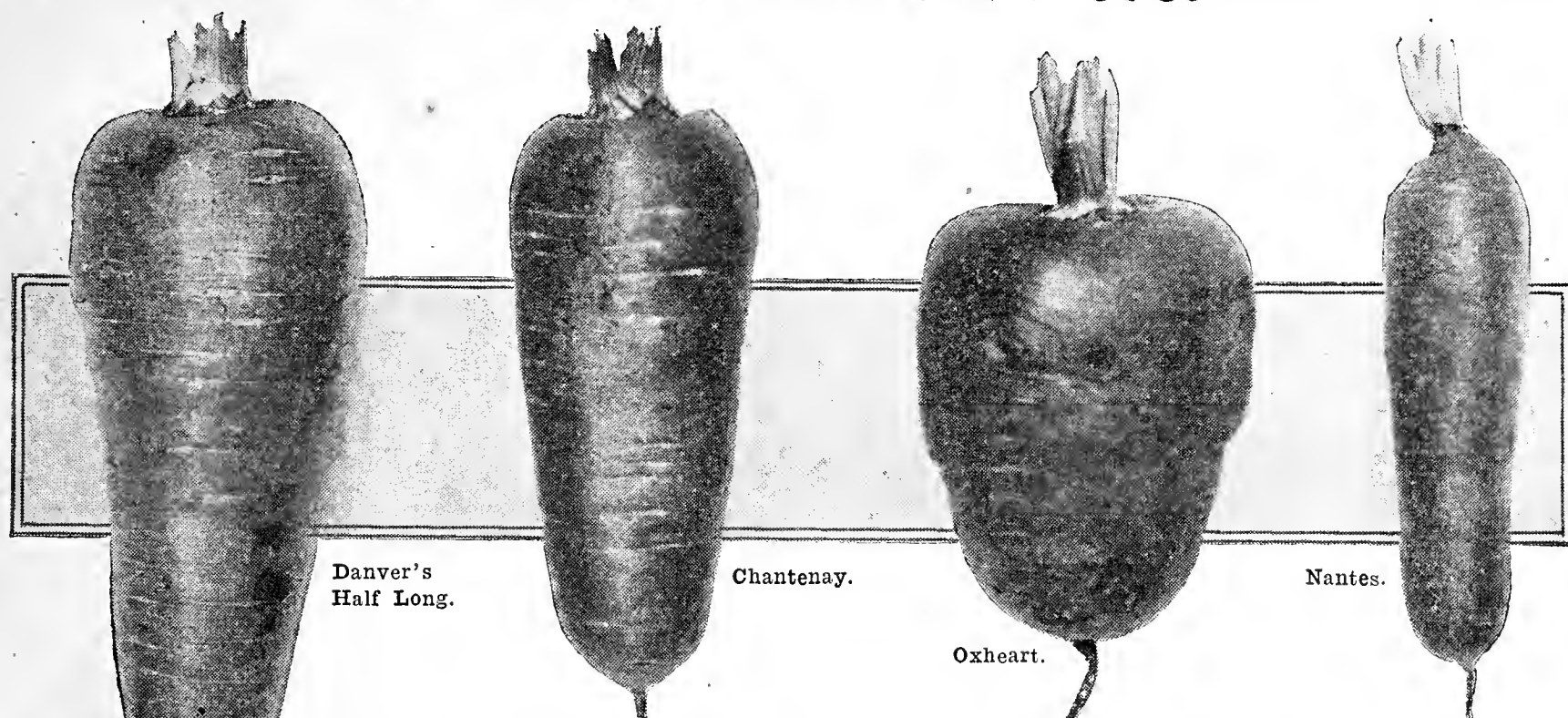
115. KLEIN WANZLEBEN SUGAR—The best and most widely grown of any sugar beet. Produces 14 to 18 tons per acre. Very rich in sugar.

Prices on all Mangels: Oz. 5c, 1/4 lb. 15c, lb. 50c, prepaid.—Not prepaid, 5 lbs. at 40c per lb., 10 lbs. at 35c per lb. For prices on larger quantities, write for our Market Gardeners' Price List.



Mammoth
Long Red.

CARROTS—Table Varieties



One ounce of seed will sow 100 feet of drill, three to four pounds required per acre.
CULTURE—The carrot is one of the most nutritious and healthful roots, and should be more generally used for the table as well as for stock feeding purposes. Will grow in any soil; sandy deep loam is best. Sow as early as the ground can be worked, in rows 15 to 18 inches apart, covering about one-half inch. The plants should be thinned to two, three, or even four inches apart in rows.

170. F. S. & N. CO'S SUPERIOR MARKET—The roots grow about 6 inches long, broad at the top, and narrow slightly to a blunt end. They are bright orange in color, and of tender quality, being practically coreless. This variety is ready for use 65 days from the date of sowing. One of the best for home gardens. Pkt. 10c, oz. 18c, ¼ lb. 45c, lb. \$1.50, prepaid.

171. DANVER'S HALF LONG—This is considered the best variety for general crop; it is a first class carrot for any kind of soil. Roots are of rich dark orange color, grow to a good large size, tapering uniformly to a blunt point, and are smooth and handsome. Easily harvested and a good keeper. This carrot is excellent for table use, and for feeding purposes. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, prepaid.

172. NANTES CORELESS HALF LONG—One of the best carrots ever offered. Flesh is deep orange, very sweet and tender, and almost entirely coreless. Roots grow about 6 inches long, cylindrical and smooth, and are always of the finest quality. Pkt. 8c, oz. 15c, ¼ lb. 40c, lb. \$1.35, prepaid.

173. EARLIEST FRENCH FORCING—The earliest small round variety, very much used for early forcing, color reddish orange; it bunches very nicely and is used largely for market as well as for the kitchen garden. Of very tender quality, without core. Pkt. 8c, oz. 15c, ¼ lb. 40c, lb. \$1.35, prepaid.

174. GUERANDE OR OXHEART—Tops small for the size of the roots, which are comparatively short, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. Especially desirable for soil too hard and stiff for longer rooted sorts. The roots are excellent for table use, and when mature are equally good for feeding stock. Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. 90c, prepaid.

Carrots are a short crop—order early.

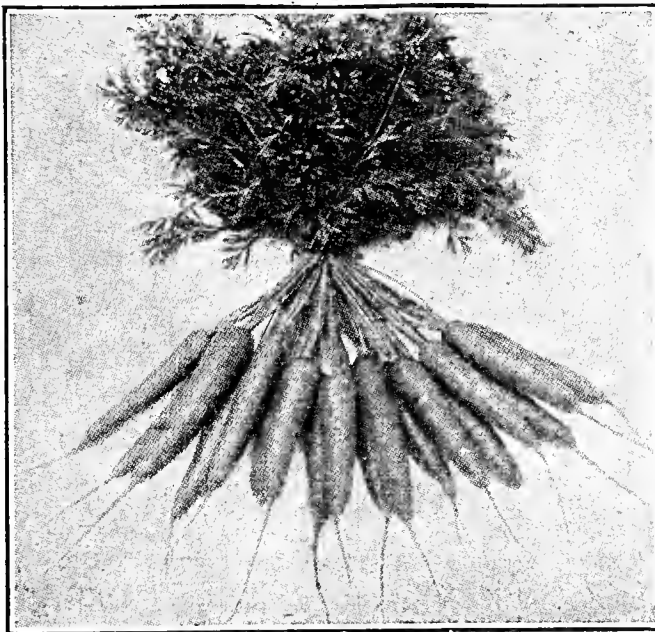
175. SELECTED CHANTENAY—An early main crop carrot and a first class table variety that can be used 60 days after sowing. Stump rooted, about five to six inches long, and broad-shouldered. The flesh is of rich orange color, and of the finest quality; is medium early, with small tops. Our special strain is a favorite with market gardeners. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, prepaid.

176. EARLY SCARLET HORN—(Stump rooted.) Popular for forcing and early garden use. Roots are of medium size; flesh deep orange, fine grained; of agreeable sweet flavor; small top. Fine for bunching for the market. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, prepaid.

177. RED CORED CHANTENAY—A new strain of Chantenay—medium early, half long and very prolific. The flesh is crisp and sweet and a reddish core is its distinguishing feature. A favorite with gardeners. Average length 5-6 inches. See illustration front inside cover. Pkt. 10c, oz. 18c, ¼ lb. 45c, lb. \$1.50, prepaid.

178. IMPROVED LONG ORANGE—(Point rooted.) The standard late variety and an excellent keeper, also profitable for feeding livestock; very handsome and uniform in shape; deep orange color, good flavor; yields very heavily. Requires a deep soil; plants should stand 8 inches apart in 18 inch drills for roots to attain full size. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c, prepaid.

179. PRIDE OF DENMARK—One of the finest winter Carrots, succeeding best in deep, well worked soil. Foliage is strong—the root grows to a length of 10 to 12 inches, and is stumpy. Shape slightly tapering. "Pride of Denmark" has a deep orange red color, with but little core. It is a heavy yielder and has an exceptionally fine flavor. Pkt. 8c, oz. 15c, ¼ lb. 40c, 1 lb. \$1.35, 2 lbs. \$2.60, prepaid.



Superior Market.

FIELD OR STOCK CARROTS

Carrots are of great feeding value for all livestock, and for poultry. They act as a tonic and help keep the digestive organs in healthy condition. If cattle are fed with carrots regularly, not only will there be steady gain in weight, but the flow of milk is greatly increased and enriched. Carrots are especially good for horses, and may be fed with oats. Roots should be chopped and fed with fodder.

185. VICTORIA—The largest and heaviest cropping yellow carrot in cultivation. The roots are very symmetrical, and of excellent quality, possessing high feeding properties. This carrot is especially adapted for rich land, although a heavy cropper on all soils. It is easily harvested, as the roots grow largely above the ground. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c, prepaid.—Not prepaid, 5 lbs. \$3.00.

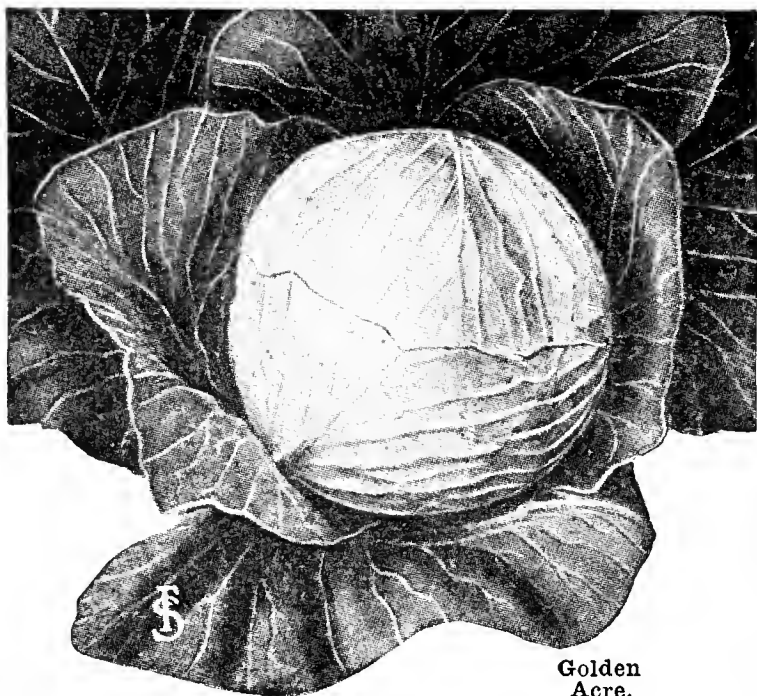
186. MASTODON—The roots are half long, smooth, very heavy at the shoulder but tapering regularly to a point; color, light green at the crown, white below; flesh white, solid crisp, and of excellent quality. A heavy yielding, easily harvested, white carrot, that is the best of this class. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c, prepaid.—Not prepaid, 5 lbs. \$3.00.

CHICORY

285. LARGE ROOTED—Grown for the roots which are taken up and dried, and when required for use, are roasted, ground and used as a coffee substitute. In spring the leaves make a good salad, and are used extensively for this purpose. Pkt. 8c, oz. 15c, ¼ lb. 40c, prepaid.

286. WITLOF-CHICORY OR FRENCH ENDIVE—A famous winter salad. Sow the seed in spring and allow the plants to grow until November, then take up roots and trim off all leaves to about 1½ inches from the neck; cut off lower end of root so the whole plant will be not more than 8 inches long and store in root cellar. When wanted for use, plant in a trench 16 inches deep, in cool cellar, so roots are covered by 8 inches of soil. In about two months the head will be ready for use. The blanched head is the edible portion and is eaten as a salad, with French dressing, or cooked like ordinary endive or celery. Pkt. 8c, oz. 15c, ¼ lb. 40c, prepaid.

For CHIVE PLANTS see page 26.



Golden Acre.

136. EARLY COPENHAGEN MARKET—

A splendid variety, especially popular with market gardeners. It is the finest large, round-headed early cabbage in cultivation. Its most desirable characteristic is that all heads mature at the same time, enabling the grower to harvest the entire crop at the first cutting. The quality is especially fine and sweet. It matures as early as Wakefield, and yields more to the acre in weight. Liberal pkt. 8c, oz. 25c, ¼ lb. 75c, lb. \$2.75, prepaid.

126. GLORY OF ENKHUSEN—A very early cabbage, producing large ball-shaped heads, double the size of the Jersey Wakefield, which are extremely solid, fine ribbed, exceedingly tender and of the finest flavor. It keeps in good condition for a long time. The plants are very dwarf and compact, allowing close planting. Pkt. 5c, oz. 20c, ¼ lb. 55c, lb. \$2.00, prepaid.

USE "KALITE" FOR CABBAGE WORMS.

Safe to use, contains no arsenic, lead or copper. Comes ready mixed in correct proportions to dust on as required. Will control Cabbage Worms, Cucumber Beetle, Squash Beetle, and most leaf-eating insects. Average requirements 10 to 20 lbs. per acre. See page 73.

LATE VARIETIES

140. DANISH BALLHEAD, TRUE HOLLANDER OR AMAGER—Medium stem—Danish grown, and a great favorite with all who have grown it. The heads, which are round, very solid and compact, are of medium size, averaging about 8 lbs.; in color they are entirely distinct, being a fine white; they never burst and keep as solid and perfect when taken up in the spring as when put away in the fall. This cabbage is of the finest quality, crisp, tender and sweet in flavor. It grows well on almost all soils and under most conditions, withstanding cold, dry and hot weather. It is without question the most popular winter cabbage and is grown extensively in the cabbage sections of the Northwest. Pkt. 8c, oz. 25c, ¼ lb. 70c, lb. \$2.60, prepaid.

141. DANISH ROUNDHEAD—An earlier short stemmed strain of the famous Danish Ballhead. In this strain we have very large, solid heads on short stems, having the same keeping quality as the original strain of Danish Ballhead. It is 10 days to two weeks earlier and produces as large a yield as any of the Danish Cabbages. Especially valuable for high, dry land, producing good sized heads. For shipping in the late fall or winter there is no finer cabbage than this strain. Pkt. 8c, oz. 25c, ¼ lb. 70c, lb. \$2.60, prepaid.

144. PREMIUM LATE FLAT DUTCH—A very fine strain of Late Flat Dutch which we can recommend as a sure heading variety, producing very large, solid heads, weighing 15 to 20 pounds each, of dark green color and excellent flavor; it is a good keeper. One of the best fall shipping cabbages, and unsurpassed for table use. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.85, prepaid.

SAVOY CABBAGE

Savoy Cabbage differs from other cabbage both in appearance and flavor. The leaves are deep green, much crumpled and wrinkled, and very tender. The flavor is rich and delicious, much milder, with less of the "cabbage" taste than the common sorts. Savoy is the best cabbage for cooking.

156. LATE DRUMHEAD SAVOY—Quality and flavor of this Savoy Cabbage the best ever, especially when allowed to be touched by frost. It is sweet, delicate, with a rich, delicious flavor. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.50, prepaid.

For Cabbage and Cauliflower Plants, Chive Plants, Celery and Tomato Plants, Onion Plants, etc., see page 26.

CABBAGE

One ounce of seed will produce about 1,500 plants. ¼ lb. of seed for an acre.

The best way to start cabbage, especially the early sorts, is in hotbeds, flats, or in a greenhouse. Sow the seed ¼ inch deep, in carefully prepared rich garden soil. Seed usually germinates in 5 to 10 days. When ready to transplant, set into paper pots or plant bands, in flats, until time to set outdoors. The plants can then be set out without disturbing the roots, and the paper bands form the best protection against cutworms. Set in rows 2 feet apart, 20 inches apart in the rows.

Late cabbage may be sown in the open, in rows, and transplanted when 4 to 6 inches high.

To prevent maggots in the small garden, put a circular piece of building paper around each plant. The fly cannot then deposit eggs close to the stems of the plants. A spray of carbolic acid solution, 1 to 30, once a week for several weeks after the plants are set out, helps to prevent maggots.

Cabbage worms may be controlled with Evergreen, Garden Guard, Nok-Em-Kold. See page 73 for insecticides.

Most cabbage diseases, club root, black rot, etc., are caused by growing cabbage in infected soil. Crop rotation and liming the soil, are the best preventives. The soil can be sterilized, and a certain immunity to disease established, by treating both seed and soil, especially when large quantities are sown, with Semesan. This cannot injure the seed, and will increase the yield enormously. Semesan will be found listed on page 72.

EARLY VARIETIES

138. EXTRA EARLY GOLDEN ACRE—This is just what the name implies—a real profit maker. It is an extra early forcing strain, has the round, hard head of the Copenhagen Market, yet seven to eight days earlier and the ideal cabbage for early market. Texture is very fine and quality excellent. Heads average 9 inches in diameter, grow close to the ground and ripen uniformly.

Because of its uniform size and habit of growth, Golden Acre can be planted more closely than most cabbages, and is therefore more economical to grow. It will stand in the field for a month or more without bursting, and can be shipped long distances without showing signs of wilting. Pkt. 10c, oz. 30c, ¼ lb. \$1.00, lb. \$3.75, prepaid.

120. MINNESOTA'S EARLIEST—The earliest of the early cabbages, and an extra select strain of the Jersey Wakefield type. It produces pointed heads of good size and fine quality, very hard and firm, just a week ahead of the Jersey Wakefield. This is an excellent variety to grow in the home garden for summer use, and most profitable for the market. It is especially suitable for growing in the North, where the seasons are too short to mature other varieties. Pkt. 8c, oz. 25c, ¼ lb. 70c, lb. \$2.60, prepaid.

121. EARLY JERSEY WAKEFIELD—The best first early, oblong sort. Heads are conical, very hard and solid, and of excellent quality. Most gardeners depend upon it for the bulk of their extra early crop, and its hardiness to resist cold and other unfavorable conditions insures the most satisfactory results.

Selected seed. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.15, prepaid.

133. EARLY DWARF FLAT DUTCH—An excellent second early variety, producing fine, large heads. Highly valued for its good quality and ability to resist heat. Head solid, tender, and fine grained. Grows compact and upright with few leaves. A dependable header and good keeper. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.85, prepaid.

For Cabbage Plants, see page 26. Large cabbage growers write for our Market Gardeners' Price List.



Minnesota's Earliest.

RED CABBAGE

151. F. S. & N. GO'S DANISH STONEHEAD—One of the best strains ever introduced. The plants are strong and compact in growth, producing dark red, round, solid heads of large size, equally as hard and handsome in appearance as our famous Danish Ballhead. A valuable sort for market or pickling. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.50, prepaid.

152. ERFURT EXTRA EARLY—This is the earliest of all red cabbages. The heads are not very large, but of excellent quality, very hard and keep well; the color is blood-red. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.50, prepaid.



Danish Roundhead.

Cabbage Plants on page 26.

CABBAGE

"YELLOWS" RESISTANT VARIETIES

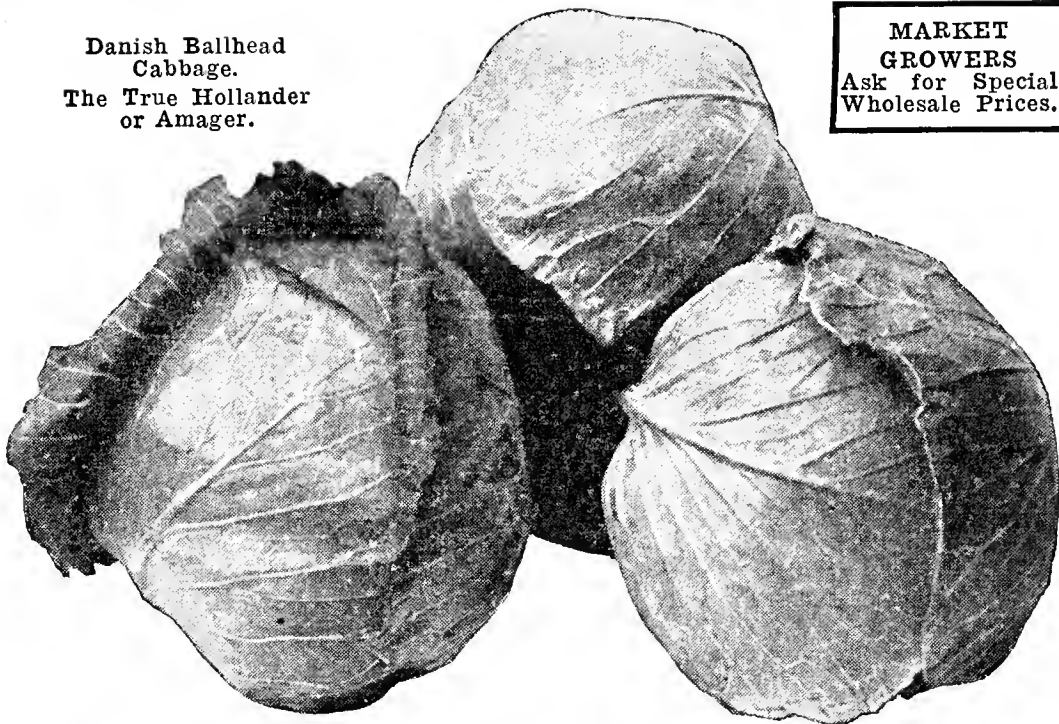
137. WISCONSIN "ALL SEASONS"—A selected strain of All Seasons that has been bred up to resist "yellows," a disease that ravaged the cabbage crops in Wisconsin. No claim is made of freedom from club root, stem rot, or black rot. For those diseases, the seed should be treated with Semesan. This is the best kraut cabbage, producing large heads, nearly round, solid, and of fine texture. The leaves are small ribbed. It is wilt resistant, sure to head, and withstands hot, dry weather exceptionally well. Pkt. 10c, oz. 35c, ¼ lb. \$1.25, lb. \$4.25, prepaid.

134. HOLLANDER, WISCONSIN NO. 8 YELLOWS RESISTANT—This variety was bred up from the Danish Ballhead type and re-selected for a number of years for resistance to cabbage yellows. It is a heavy yielding, late storage cabbage. Round head, medium stem and highly resistant to yellows. The quality is excellent—a wonderful kraut variety. If your soil is subject to diseases, do not fail to secure this yellows-resistant strain. Pkt. 10c, oz. 35c, ¼ lb. \$1.25, lb. \$4.25, prepaid.

F. S. & N. Co. Staples, Minn., February 23, 1932.
We can depend on having a good garden only, when we buy your dependable seeds. So please send me your catalog as we are market gardeners.

Mrs. Al. Hartman, Box 302.

Danish Ballhead Cabbage.
The True Hollander or Amager.



MARKET GROWERS
Ask for Special Wholesale Prices.

FINEST DANISH GROWN CAULIFLOWER

One ounce of seed will furnish 1,000 to 1,500 plants, 6 to 7 ounces plant an acre.

CULTURE—Sow the seed in flats or hotbeds, in a rich soil composed of equal parts of garden soil, leaf mould, and sand. Seed may be started in February or March. Transplant to other flats, or to paper pots, when the plants are 2 or 3 inches high. Set outdoors as soon as weather permits, 2 to 3 feet apart each way. The soil should be very rich, containing plenty of

humus matter and moisture. While the heads are forming, water freely, and apply liquid manure or light dressing of nitrate of soda and potash. When the heads have formed and are hard, tie up the outer leaves to blanch the heads. Cauliflower needs cool, rather damp weather and will not form good heads in a dry, hot season or in dry sections.

166. SUPER SNOWBALL CAULIFLOWER

The very newest and finest strain of Danish grown Cauliflower. A vigorous and quick grower, maturing in 110 to 120 days. The heads have unusual depth—are solid, finely grained and pure white in color. They will mature with great evenness, and on the market the fine texture of the heads and compact form makes Super Snowball sell on sight. We stake our reputation on this strain. No finer quality can be produced, regardless of price paid. See illustration back inside cover. Pkt. 20c, ¼ oz. 75c, ½ oz. \$1.25, oz. \$2.25, ¼ lb. \$8.15, prepaid.

160. EARLY SNOWBALL

—Early Snowball is dwarf and compact in growth, very uniform, and under reasonably favorable conditions, every plant will form a large solid head, 8 to 10 inches across, with very close snow-white curds of finest quality. The heads are deep and nearly globe shaped, short stemmed, with heavy pointed leaves folding inward to protect and blanch them. Although this is an extra early sort, it can also be planted to advantage for late fall and winter use. Pkt. 15c, ¼ oz. 60c, ½ oz. \$1.00, oz. \$1.75, ¼ lb. \$6.25, prepaid.



Super Snowball Cauliflower.

161. SELF PROTECTING DANISH PERFECTION

—A new variety, of the Dwarf Erfurt type, being an improved strain. This is not quite as early as the Early Snowball, but the heads are better protected by leaves, and are very firm, solid and heavy, pure white with no protruding leaves. The extra protection from the large leaves does away, to a large extent, with the necessity of tying up the leaves to blanch the heads. Pkt. 15c, ¼ oz. 60c, ½ oz. \$1.00, oz. \$1.75, ¼ lb. \$6.25, prepaid.

165. DRY WEATHER OR DANISH GIANT

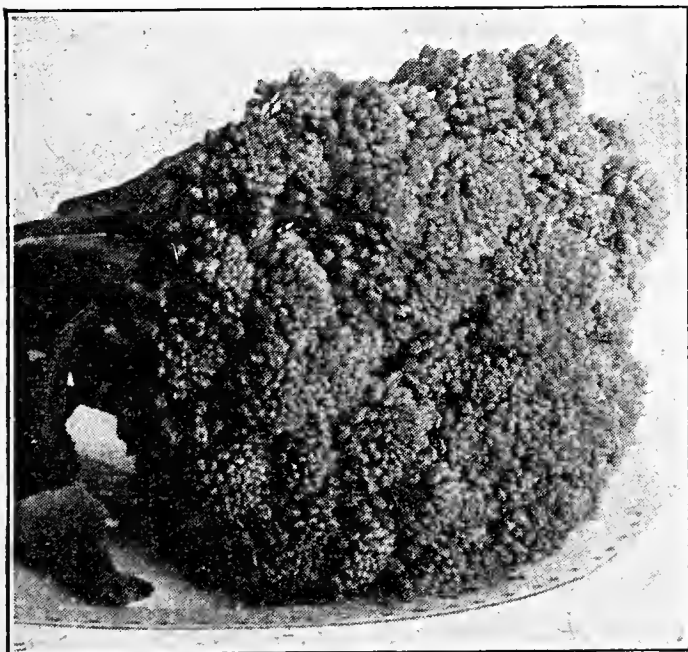
—This variety is of vigorous and dwarf growth, and produces stone-hard and snow-white heads, unsurpassed in quality. The foliage is very heavy, fully protecting the heads, which are less liable to blight in hot weather than those of the earlier sorts. Dry Weather Cauliflower requires less moisture than other varieties, and is especially adapted for growing in dry localities, where it will produce good sized heads under unfavorable conditions. Pkt. 10c, ¼ oz. 50c, ½ oz. 90c, oz. \$1.65, ¼ lb. \$6.00, prepaid.

BROCCOLI

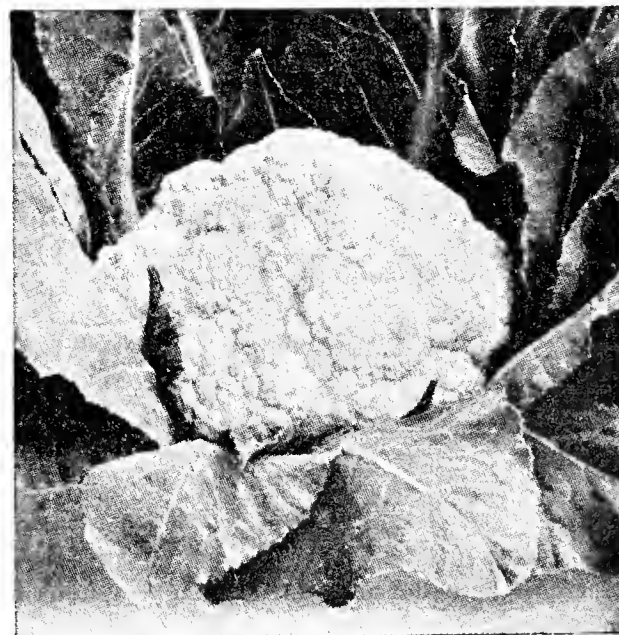
Broccoli is quite distinct in flavor from Cauliflower. Its chief advantage is in its extreme hardiness. Sow the seed outdoors, as soon as the ground can be worked. For the fall crop, sow about June first, thin out the plants to stand 3 or 4 inches apart, then transplant in rows.

80. ITALIAN GREEN SPROUTING CALABRESE

—A choice new strain of this Italian vegetable, and becoming very popular on the American market. Does not make solid heads, but produces an abundance of green tender sprouts with loose flower heads at the end. It is cooked like Spinach or Brussels Sprouts and is very delicious and tasty. Sow in May—ready to harvest in August. Pkt. 10c, ½ oz. 35c, oz. 60c, ¼ lb. \$1.75, prepaid.



Italian Green Sprouting Broccoli.



Early Snowball Cauliflower.

Cabbage, Cauliflower and other Vegetable Plants on Page 26.

SUPERIOR—CELERY—STRAINS

An ounce of celery seed will produce 7,500 plants— $\frac{1}{4}$ pound of seed will produce enough plants for one acre.

CULTURE—Sow the seed in flats, during February or March. Celery seed germinates slowly and the surface of the soil must be kept constantly moist. Cover the seed very lightly, with fine sand rather than with soil, to prevent a hard surface. When plants are 2 or 3 inches high, transplant them to other flats. In May, set them out in rows 3 feet apart, 6 inches apart in the rows.

To blanch celery, hill up the stalks with earth, but do not let any dirt fall into the hearts of the plants, and do not work at it while wet. Celery may also be banked with boards pushed close to both sides of the rows. For winter use, store in a cool cellar.

195. SELECT FRENCH GOLDEN SELF BLANCHING—This is the best Celery for early table use, and is the most popular grown for the market. The plants grow to medium size, and are stocky and compact. The heart is rich golden yellow, with light yellowish green outer stalks and leaves. Stalks are broad and heavy, but remarkably crisp and tender, entirely free from stringiness, and of fine flavor. As its name indicates, this celery is self blanching, and needs but little care in the way of bleaching. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.75, prepaid.

196. WHITE PLUME—An extra choice early variety, suitable also for fall and early winter use. Plants grow rapidly and blanch naturally, both stalks and leaves turning white. They require very little banking up in order to blanch the stalks thoroughly. Stalks are slender, crisp and brittle, and of excellent flavor. White Plume is one of the best for the home garden and early table use, but cannot be kept through the winter. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50, prepaid.

197. AMERICAN GOLDEN SELF BLANCHING—The seed of this strain is American grown, from the best selected French stock, and is the finest obtainable in this country. The plants are compact and stocky, with yellowish green leaves, and grow to a medium size. Stalks are broad, solid and of delicious flavor. Its rich, golden yellow color makes this Celery a favorite on the market. Pkt. 8c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.75, prepaid.

199. GOLDEN PLUME—This is a selection from the Golden Self Blanching. The plants are more vigorous in growth, and stand the heat and blight better than the Self Blanching does. The stalks are quite short, very brittle and tender and of highest quality. They are a beautiful golden yellow, with a tuft of foliage in the middle. Pkt. 10c, $\frac{1}{2}$ oz. 35c, oz. 50c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.00, prepaid.

201. CELERY SEED FOR FLAVORING—This is used in place of celery stalks, for flavoring soups, pickles, etc. Oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c, prepaid.

CHINESE CELERY CABBAGE

158. PE-TSAI—A delicious salad vegetable of the finest quality. It resembles Cos lettuce, the heads being long and narrow, with tightly folded, crisp, white leaves, as tender as those of head lettuce. The flavor is that of a very mild cabbage, blended with celery. Do not sow until June or July to avoid flowering. It makes a delicious salad, sliced and served with French dressing. Boiled like cabbage, Celery Cabbage is especially fine, as it is without the offensive odor and strong flavor common to cabbage. Pkt. 8c, oz. 20c, $\frac{1}{4}$ lb. 70c, lb. \$2.50, prepaid.

159. CHINESE CELERY CABBAGE (FOR POULTRY)—A new cheap, green feed of great value for poultry, more productive than lettuce, spinach or mangels. Sow the seed in rows $\frac{1}{2}$ inch deep and 24 inches apart, using 3 lbs. seed per acre. An ounce of seed will provide green feed for 100 hens for 4 months. Commence feeding Chinese Cabbage when plants are 4 inches high, pulling out every other plant. Plants form heads of 5 to 7 lbs. in 2 months, which can be stored until wanted. The greens need not be chopped for young chickens. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$2.00, prepaid.



Chinese Celery Cabbage.



Golden Self Blanching Celery.

CELERIAC—TURNIP ROOTED CELERY

The roots are used in salads or boiled like parsnips or turnips and have a celery flavor. They keep well all winter. Celeriac may be cooked, and served with cream sauce, or used as a salad.

205. LARGE ERFURT—Roots large, smooth, turnip-shaped, excellent flavor. Pkt. 8c, oz. 20c, $\frac{1}{4}$ lb. 70c, lb. \$2.50, prepaid.

CORN SALAD

291. LARGE LEAVED—Hardy plants for fall, winter, and spring use. Large heads of tender, edible leaves, that can be used like lettuce in salads, or cooked like spinach. Ready for use in 4 to 6 weeks. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid.

LOCKED PLANT BANDS and PAPER POTS



Locked Plant Bands.

These are used by progressive gardeners and commercial growers everywhere. Transplant your seedlings to these Locked Plant Bands, and they'll never know they've been disturbed. Fit them into flats until ready to set out, then set the whole band or pot into the ground. Roots are not exposed to air, and there is no setback. Bands make a good guard against cutworms.

Price, of Bands, postpaid: 2x 2x2 $\frac{1}{2}$ inches, the most popular size, 100 for 60c, 250 for \$1.25—not prepaid: 500 for \$2.10, 1,000 for \$3.80, 5,000 for \$15.00; 3x3 inches, for larger plants, 100 for 75c, 250 for \$1.50, prepaid—not prepaid: 500 for \$2.65, 1,000 for \$4.95, 2,500 for \$12.00.

Paper Pots—Same as Plant Bands, with folding bottoms. They can be used as extra deep bands, by leaving the bottom unfolded.

Price of Paper Pots: 2x2x2 $\frac{1}{2}$ inches, 100 for 75c, 250 for \$1.50 prepaid—not prepaid: 500 for \$2.50, 1,000 for \$4.50; 3x3x3 inches, 100 for 85c, 250 for \$2.00, prepaid—not prepaid: 500 for \$3.65, 1,000 for \$7.00.

CRESS OR PEPPER GRASS

295. FINE CURLED—Crisp, pungent leaves, finely cut and curled, dwarf and compact. Used mostly for garnishing and as a condiment. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, prepaid.

Gould City, Mich, June 1, 1932.

F. S. & N. Co.

I have found that you need not worry if the weather is not just right, for Farmer Seed & Nursery Seeds will come out all O. K. and they do bring wonderful crops. Last summer in this climate we had only one month, July, without white frosts so you know that it is important for us to buy seed from only reliable companies. If seeds fail to come, it hardly gives us time to replant, with the exception of certain early vegetables.

Lee Rogers, c/o Oscar Carlson.

MASTERS RAPID PLANT SETTER

The only practical tool for transplanting all kinds of plants—Tomatoes, Cabbage, Cauliflower, Pepper, Egg Plant, Strawberries, etc.

Each plant is set, watered and covered in one operation, without any stooping or lame backs. Cuts labor to one-third. With the Masters Rapid Plant Setter, one man will set 8,000 to 15,000 plants per day—this is more than three men can do by hand.

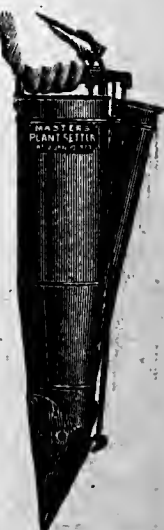
Does Perfect Work.

The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water into the ground. This is "Nature's Own Way." Transplanting losses are reduced to the minimum. The tiny roots are sucked into the ground almost as though they grew there and the plant takes hold and starts to grow at once.

Don't Wait for Showers.

You can set your plants just when you are ready with the Masters Rapid Plant Setter and you will have a full stand of plants without fail. Works equally successful on hillsides, among stumps and uneven ground.

Thousands are in use—they are guaranteed to satisfy you fully or money back. This Setter will pay for itself within the first week of use. Price: \$5.85, f. o. b. Faridault.



Masters Plant Setter.

CUCUMBERS

An ounce of seed will plant 50 hills; three pounds will plant an acre.

CULTURE—Cucumbers require rich soil. Plant the seed in low, flat hills, 5 to 6 feet apart each way, allowing 12 to 15 seeds per hill. Cover with three-fourths of an inch of finely pulverized soil. Thin out all but 4 or 5 of the strongest vines to a hill.

PICKLING CUCUMBERS

255. F. S. & N. CO'S EARLIEST PICKLING—This variety is the earliest and best strain of all pickling cucumbers. The vines are of vigorous growth and hardier than other varieties, therefore permitting early planting. The fruits are of medium size, slim in shape, of superior quality. More prolific than most other cucumbers we have grown. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.10, 2 lbs. \$2.00, prepaid.

257. CHICAGO OR WESTERFIELD PICKLING—Fruits of medium length, somewhat thicker than the Boston and deep green in color, with large, prominent spines; extremely prolific. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 80c, 2 lbs. \$1.50, prepaid.

258. BOSTON OR GREEN PROLIFIC—A distinct and very productive variety. Fruits bright green, medium sized, slender, smooth, symmetrical, crisp and tender. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 80c, 2 lbs. \$1.50, prepaid.

259. EARLY GREEN CLUSTER—Fruits of the slim form, desirable for small pickles; is very prolific, frequently setting fruits in clusters of 2 and 3. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 80c, 2 lbs. \$1.50, prepaid.

260. IMPROVED LONG GREEN—One of the best for slicing and pickles. Vines are very vigorous and productive, and the fruits about 12 inches long, are formed almost as early as those of the short sorts. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.10, 2 lbs. \$2.00, prepaid.

261. NEW EVERBEARING—Very early, enormously productive, and valuable as a great pickler. The peculiar merit of this variety is that the vines continue to produce fruit until killed by frost, whether the ripe cucumbers are picked off or not. The fruit is of medium size, perfect in shape, of a fine green color. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 80c, 2 lbs. \$1.50, prepaid.

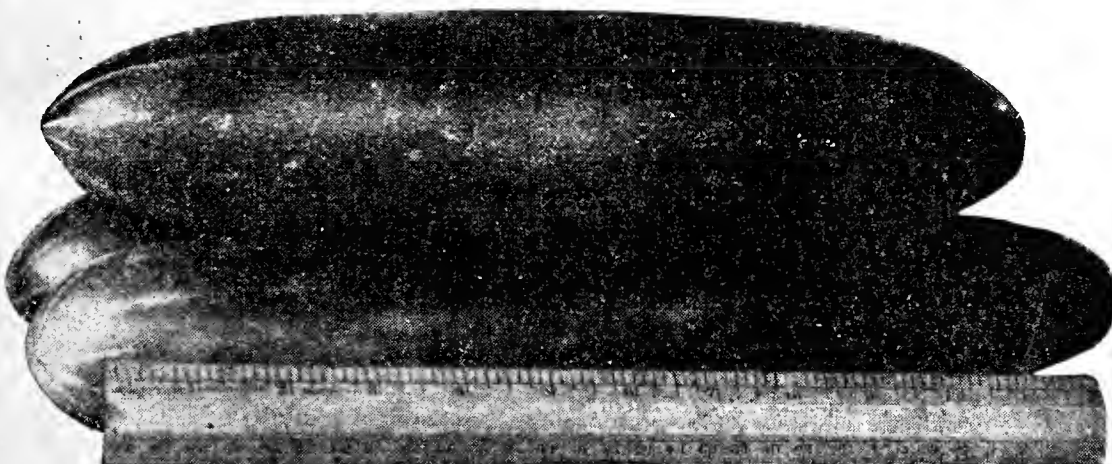
HOW TO PROTECT CUCUMBERS.

For cucumber beetles use Nok-Em-Kold, Garden Guard, Slug Shot or Arsenate of Lead. For anthracnose or downy mildew use Bordeaux Mixture—See Page 73.

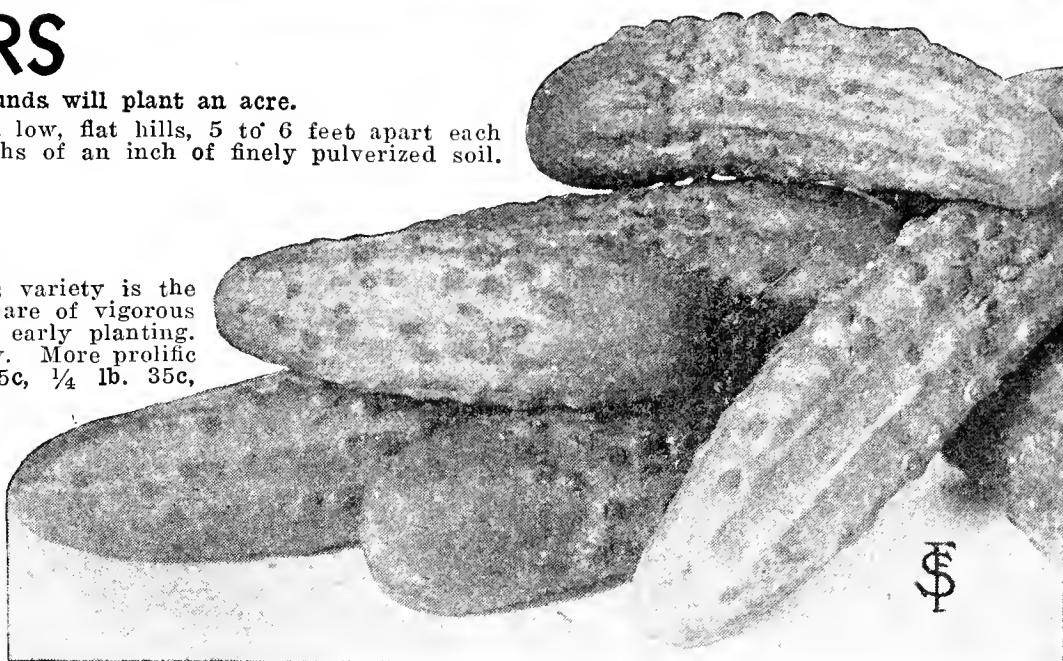
NEW WHITE SPINE VARIETIES

272. THE "VAUGHAN" OR LONGFELLOW—Gardeners say this new cucumber will displace all other long white spine varieties. Its uniform, long slender shape—its dark green color and excellent table quality make it the outstanding variety. Very prolific—fine for forcing. Cucumbers frequently more than a foot in length. Pkt. 10c, oz. 20c, 1/4 lb. 65c, lb. \$2.00, 2 lbs. \$3.75, prepaid.

266. CLARK'S SPECIAL HYBRID WHITE SPINE—A new main crop variety that holds its color and firmness for distance shipping. The quality is excellent and its small seed pockets make it very desirable for slicing. This is probably the best all around White Spine Cucumber so far introduced. Its dark green color, smooth appearance and uniform length of 8-10 inches makes it an ideal cucumber for home or market. Gardeners may well profit by giving this new variety a trial. Pkt. 10c, oz. 20c, 1/4 lb. 65c, lb. \$2.00, 2 lbs. \$3.75, prepaid.



"Vaughan" or Longfellow. (Note Length.)



F. S. & N. Co's Earliest Pickling.

WHITE SPINE VARIETIES

278. WHITE WONDER—This is a beautiful snow white, not changing color even when fruits are matured. It grows to good size, about 8 to 10 inches long, and is very uniform. The flavor is excellent, and the flesh is firm and crisp, fine sliced and in salads. Pkt. 8c, oz. 15c, 1/4 lb. 40c, lb. \$1.25, 2 lbs. \$2.25, prepaid.

267. IMPROVED EXTRA EARLY ARLINGTON WHITE SPINE—A most profitable cucumber for market gardeners, and equally desirable as a family garden sort. The cucumbers are very straight, symmetrical and of deep green color throughout their entire length, never turning yellow. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 80c, 2 lbs. \$1.50, prepaid.

268. EARLY FORGING—This is an ideal variety for forcing, as well as for the garden. Grows 10 to 16 inches long, is very uniform in shape and size, and an excellent keeper. The flesh is firm and crisp, and the skin an attractive dark green, retaining its color until ripe. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.10, 2 lbs. \$2.00, prepaid.

269. STAYSGREEN—A new white spine variety, and the earliest table or market cucumber. It is ready for use in 52 days, and is one of the most profitable market sorts, an enormous yielder and an excellent shipper. The cucumbers are of fine quality, crisp and tender, of medium size, about 6 inches long, and deep green in color. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.10, 2 lbs. \$2.00, prepaid.

270. DAVIS' PERFECT—One of the very best sorts, both for market and for the home garden. It has fine length, slimness, beautiful dark green color, transparent light flesh, with deliciously cool refreshing flavor, and is always crisp and tender. Fruits are 8 to 10 inches long, tapering at both ends, solid flesh with few seeds. They are ready for the market in 65 days. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.10, 2 lbs. \$2.00, prepaid.

271. EXTRA LONG OR EVERGREEN WHITE SPINE—Unexcelled in table quality. The flavor is unsurpassed and meat is white, firm and crisp. Vines of vigorous growth with large, heavy foliage, thus resisting attacks of insects, etc. Color is a rich dark green, size 10 to 12 inches in length, always straight and never turn yellow. Ready for the market in 70 days. Pkt. 8c, oz. 15c, 1/4 lb. 35c, lb. \$1.10, 2 lbs. \$2.00, prepaid.

F. S. & N. Co.

Rochester, Minn., Sept. 10, 1932.

I cannot say too much about your seeds as being true to name, and that is most important with gardeners. Germination also was good on every item.

Carrots, Celery, Cabbage, Onions—all made me a very satisfactory profit and I want to give credit to you folks for the quality of seeds you sell.

When you say something in your catalog, I find you tell the truth and when you have a good article that will stand boosting, don't be afraid to tell us. Be honest about it as you have in the past.

I will always be glad to recommend your seeds.

J. A. Pierce, R. 4, Market Gardener.

SWEET CORN

One pound of seed will plant 100 hills; use 12 pounds per acre.

CULTURE—A rich warm soil will give the best results, but excellent Sweet Corn can be raised on any good soil if the ground is deeply and thoroughly worked before planting.

Plant in hills 3 to 3½ ft. apart each way or sow in rows 3½ ft. apart, placing the seed about 8 inches apart in the rows. The first planting may be done as soon as danger of frost is past; for succession, plant every two weeks until July. Give frequent and thorough but shallow cultivation.

EARLY VARIETIES

228. NEW EXTRA EARLY GOLDEN GEM—The very latest origination from the North Dakota Agricultural College, where Prof. F. A. Yaeger has again scored a triumph. Now the long looked for time when luscious corn on cob may be enjoyed has been advanced 17 to 24 days, for Golden Gem is ready that much earlier than its grandparent, Golden Bantam. The stalks stand 4 ft. high and produce an average size ear with 8 rows of fine quality Yellow Sweet Corn. Golden Gem is a selection from a cross of Early Sunshine and Early Pickaninny. Early Sunshine was a cross of Golden Bantam and an early White Corn. Trials have shown the number of ears per acre of Golden Gem to exceed those of Golden Bantam. Pkt. 8c, ½ lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. \$1.25, 15 lbs. at 22c per lb.

223. EARLY SUNSHINE—An outstanding new variety of yellow corn, of exceptional merit. It was originated by Prof. Yaeger, of the North Dakota Agricultural College. The ears are bigger than those of Golden Bantam, are 16-rowed, and of deliciously rich flavor, light yellow in color. Sunshine is ready for use 6 to 10 days earlier than Bantam. The stalks are quite dwarf, with the ears set only 2½ to 3 feet from the ground, usually 2 ears to a stalk. See first inside cover for illustration.

Our seed was produced from seed stock obtained from the originator, and is true to name. 2¼ oz. pkt. 8c, ½ lb. 18c, 1 lb. 30c, 2 lbs. 50c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. and more at 18c per lb.

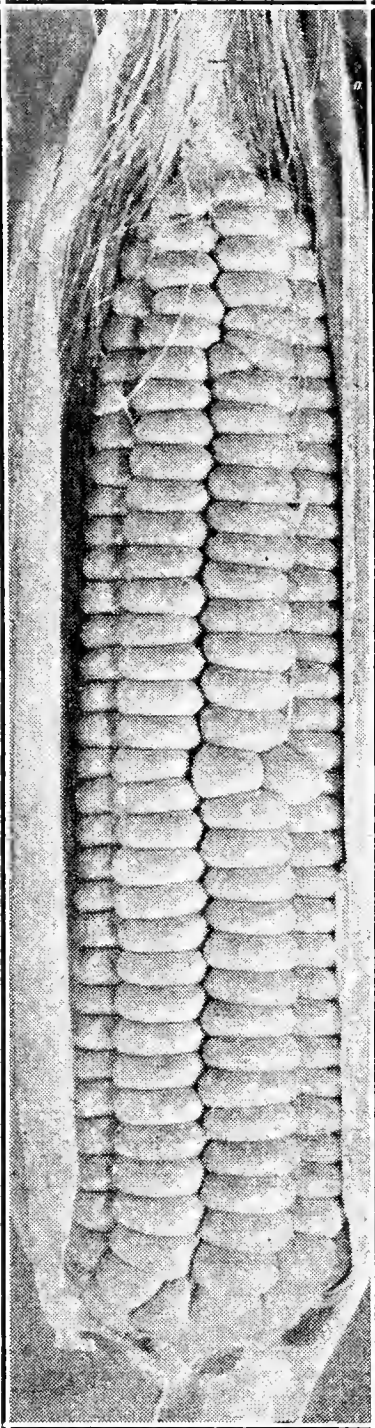
226. GOLDEN BANTAM—To most home gardeners, sweet corn means Golden Bantam. It is only a few days later than Mammoth White Cory. The ears are borne 2 or 3 to a stalk, on stalks about 4 feet high. They are quite small, 5 to 7 inches long, with 8 rows of deep golden yellow kernels. Golden Bantam is the richest and sweetest of all sweet corn.

The seed we offer is grown from specially selected stock, and is all produced in Rice and the adjoining counties. It is therefore much hardier, earlier in maturing, and of finer quality and flavor than sweet corn grown elsewhere. Pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 40c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. or more at 15c per lb.

227. "DOUBLE CROSS" HYBRID GOLDEN BANTAM—This strain represents many years of painstaking efforts in developing a uniform, early maturing Sweet Corn, producing a good yield, and above all, showing real quality.

This Hybrid Golden Bantam develops ears that are uniform like peas in a pod. It means that this corn sells on sight with gardeners, and being extra early brings better market prices than the regular strains of Golden Bantam.

"Double Cross" Golden Bantam is ready for market in 70 to 72 days from planting. The stalks grow 6 ft. high, and 95% of the ears show a uniform length of 7 inches. All ears are 8-rowed and the fine yield of this strain makes it the outstanding variety for home or market. Seed supply is limited. Pkt. 10c, ½ lb. 30c, 1 lb. 50c, 2 lbs. 90c, prepaid.—Not prepaid, 5 lbs. \$2.00, 15 lbs. or more at 35c per lb.



Early Golden Gem.

231. EARLY MINNESOTA—This old and deservedly popular variety is one of the best early sorts for the market and private garden. The stalks grow about 5 feet high, bearing one or two ears, which are long and 8-rowed. Kernels are very broad, sweet and tender, not shrinking much in drying. Our stock will be found uniform and of the best quality. Pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 40c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. or more at 15c per lb.

SEED TREATMENT SERVICE

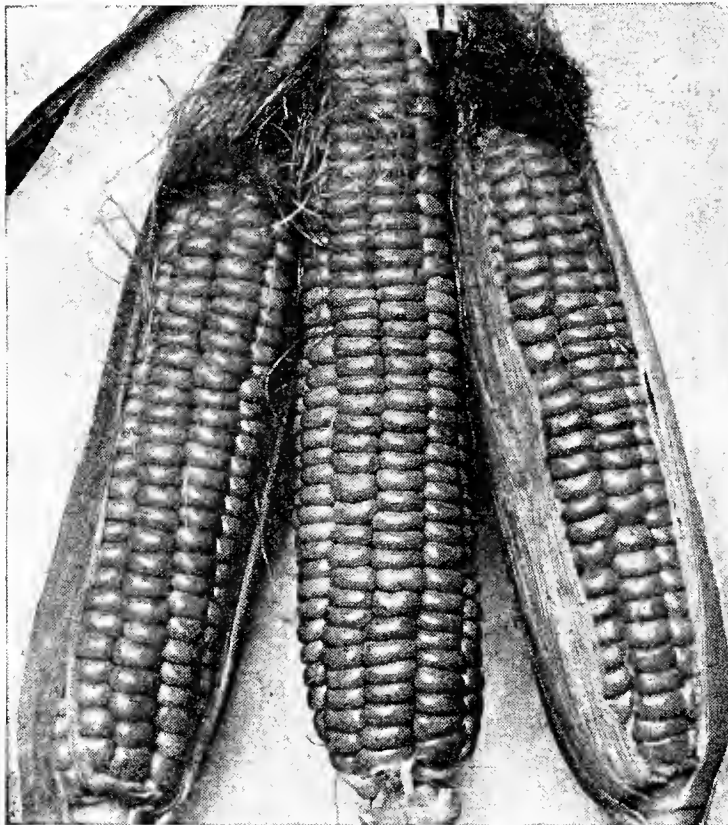
We will be glad to treat seed for particular growers with Semesan Jr. The added cost will be but 5c per pound for treating Cabbage or Onion Seed, and 2c per pound for Sweet Corn or Peas. Semesan Jr. kills harmful disease organisms on the seed, controls damping-off and promotes a good stand. See page 72.

KILL-EM-QUICK FOR GOPHERS

A quick acting poison that kills gophers instantly. Protect your corn and other crops with Kill-Em-Quick. Economical and simple to use. Price: 40 acre size 75c, 100 acre size \$1.75, prepaid.

POCKET GOPHERS

They may damage your entire planting in 24 hours. It's easy to control them with a "Sure Catch" Pocket Gopher Trap. Results guaranteed, or your money back. 85c, prepaid. See page 75.



Golden Bantam, a Most Delicious Yellow Sweet Corn.

Treat Sweet Corn with Semesan Jr.—See Page 72.

NO. 244—OUR "ALL SUMMER LONG" SWEET CORN COLLECTION.

Now you can pick fresh Sweet Corn throughout the summer and how good that flavor can be if picked just an hour before using. It's easy to arrange this at planting time, and to help you here is a collection that may be planted at the same time and will keep your table supplied with the finest Sweet Corn all summer.

A—Early Golden Sunshine. Extra early. First real quality corn.
B—Golden Bantam. Medium early. Always dependable.
C—Stowell's Evergreen. Late. Best white variety.

SPECIAL, PREPAID PRICE.

1 pkt. of each of these 3 varieties.....15c
½ lb. of each of these 3 varieties.....40c
1 lb. of each of these 3 varieties.....75c



Early Sunshine.

SWEET CORN—Late Varieties

242. STOWELL'S EVERGREEN—Recognized everywhere as the standard variety for market and home use. Remains longer in the green state than most other sorts. Very large ears with deep and remarkably sweet grains. Our stock is of the best quality grown from selected ears. 2¼ oz. pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 40c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. and more at 15c per lb.

243. COUNTRY GENTLEMAN—One of the sweetest and most delicious of all sweet corn. It is extremely productive, the stalks averaging three ears, sometimes having as many as five. The small, irregular kernels are very deep and pure white in color. Ears average 9 inches in length. 2¼ oz. pkt. 8c, ½ lb. 20c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. \$1.15, 15 lbs. and more at 20c per lb.

EVERGREEN SWEET FODDER CORN

This variety will grow 9 to 10 feet high and produce a great amount of fodder, which is equal to the best hay. It will increase the production of milk wonderfully, when fed to dairy cows. Stalks are sweet, tender, juicy, and nutritious, with large broad leaves produced in great abundance. Lb. 20c, prepaid.—Not prepaid, 5 lbs. 75c. See Blue Figure Price List for larger quantities.

F. S. & N. Co. Brook Park, Minn., May 6, 1932.
Last year was the first year that I used your seeds. They proved so satisfactory and so superior over any that I have ever used before, that now I'll never be satisfied with any other.

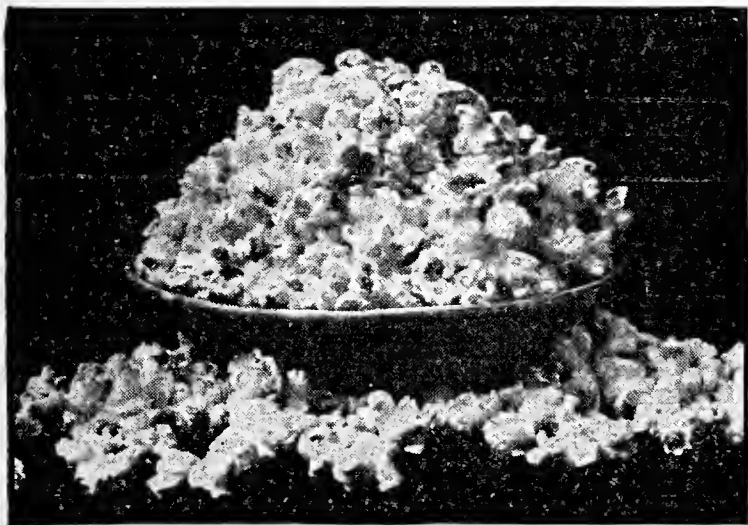
Mrs. D. E. Holland. R. 3.

F. S. & N. Co. Monitor, Wash., Jan. 12, 1932.
Will you please send us your 1933 catalog when it comes from the press? We always had grand success with your seeds when we lived in Montana and first year here.

Mrs. O. W. Titus.

NORTHERN GROWN POP CORN

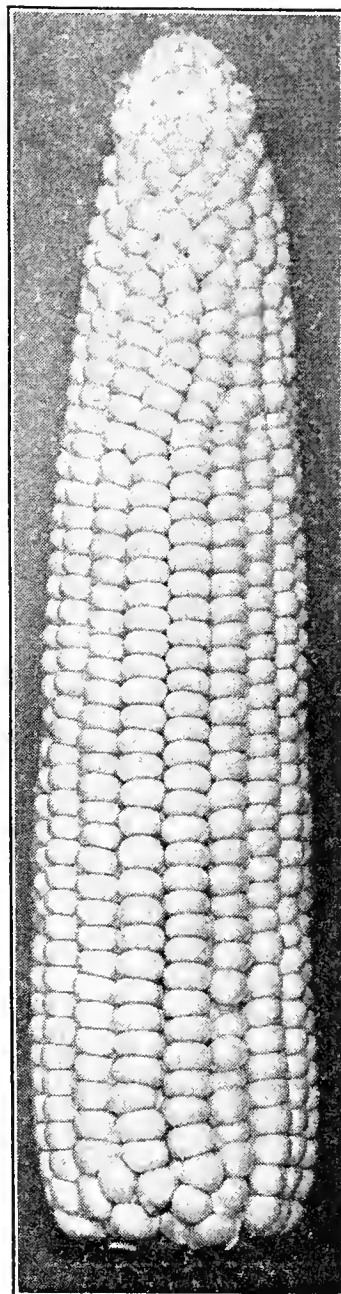
Pop corn is a profitable crop and one that is always easily disposed of, because of the large demand for corn for popping. It yields well even in unfavorable corn seasons. It is an excellent crop for the boys and girls to grow, and yields almost as much good fodder as field corn.



Plant 12 pounds to the acre, in drills, or use 6 pounds if planted in hills. Plant in rows 3 feet apart, dropping the seed 1½ feet apart in the rows. We have discarded all but the outstanding varieties of Pop Corn and proven money-makers. Such old timers as White Rice and White Spanish cannot compete in quality and flavor with the newer introductions.

249. JAPANESE HULLESS—This dwarf corn is used extensively by pop corn venders. The ears are only 2 to 3 inches long, but every kernel on the cob will pop, so there is no waste. Japanese Hulless Pop Corn is almost again as productive as White Rice. The kernels are longer and more slender, and have no hulls. 2¼ oz. pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 40c, prepaid.—Not prepaid, 5 lbs. 75c, 15 lbs. and more at 12c per lb.

246. QUEEN'S GOLDEN—Large ear and large smooth grain of a peculiar lustrous golden yellow. Very prolific. It pops splendidly, the popped corn being a rich, creamy color. The exceeding tenderness and the delicious taste, make this variety one of the best. 2¼ oz. pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 40c, prepaid.—Not prepaid, 5 lbs. 75c, 15 lbs. and more at 12c per lb.



Stowell's Evergreen.

"Farigold"—The New Sensation, in a Class by Itself.

HERE IS THE POP CORN SENSATION OF THE AGE

250. "FARIGOLD" SOUTH AMERICAN YELLOW—Known under various trade names as T. N. T., Dynamite, Yellow Giant, Sunburst, etc. Not offered as the product of any other seedsman or grower but as grown and produced for us by our own growers and sold as our own product. This new variety has taken the country by storm. It is a real Pop Corn sensation—pops the largest kernels of any variety—has a rich golden butter color—very fine flavor and is exceptionally crisp and tender. The ears are much larger than other varieties—7 to 9 inches long and the kernels are golden yellow color. It is the most profitable variety to grow as it produces more bushels per acre on account of its large ears. This Pop Corn is of South American origin. We have successfully matured our own special seed crop here in Minnesota so that the seed we offer will mature earlier. S. A. Yellow Pop Corn cannot be equalled for popping quality—it pops almost double volume of bulk of other varieties and therefore is in great demand by poppers, or for home consumption. We offer below our Popping Corn (southern grown) at a reasonable price and suggest that you order a few pounds for a real treat.

No more wholesome or cheaper confection can be had than this delicious Pop Corn, and for so small a price. For planting purposes, however, make certain that you plant only our northern strain on account of its earlier maturity. The seed supply is limited so do not delay your order. Northern Strain: Pkt. 8c, ½ lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. 90c, 15 lbs. and more, at 15c per lb.

RIGHT NOW WOULDN'T YOU ENJOY A REAL POP CORN TREAT?

Up-to-date dealers in the Northwest are now selling Farigold Pop Corn, either in bulk or in our new cellophane packages. Be sure to ask for "Farigold" from Faribault, and give the family a real treat. Don't accept anything similar or just as good. Insist on Farigold. If your dealer cannot supply Farigold, we will send it direct to you at prices given below.

RAPID FIRE POPPING CORN

Everybody likes Pop Corn—you can't eat too much and it is the least expensive of all confections. Serve pop corn balls, crackerjack, sugar corn, or just well buttered pop corn and provide a real treat on a few moments' notice. We recommend especially Farigold or Japanese Hulless—of fine flavor, exceptionally crisp and tender.

PRICE, NOT PREPAID:	5 lbs.	10 lbs.
"Farigold" So. Amer. Yellow, Southern Grown.....	\$0.60	\$1.00
Japanese Hulless .....	.50	.80
Queen's Golden .....	.55	.90

"FARIGOLD" POP CORN SEASONING

Only the best professional poppers have had knowledge of Farigold seasoning, and perhaps that is one of the secrets of the pleasing odor and delicious flavor that fresh buttered Pop Corn can have.

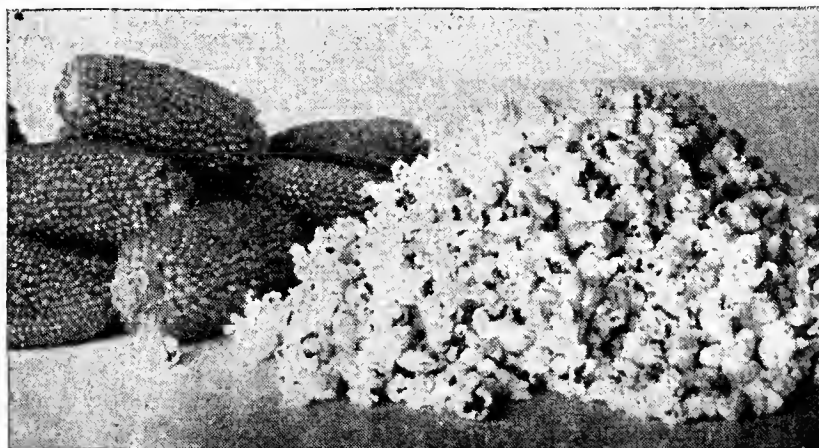
It is not butter at all, but a combination of the finest seasoning materials known only to popping experts, and now offered for family use.

"Farigold" Seasoning is inexpensive—it will keep indefinitely in hot or cold weather, never becoming stale or rancid. Try a pound and convince yourself. Pound 35c, 2 lbs. 60c, prepaid.

Pop Corn Habit Approved by Medical Leaders

The Minnesota State Medical Association in a recent bulletin offered this prescription: "One fistful of Pop Corn, one old popper and one hot fire."

Doctors think Pop Corn should be made almost an everyday affair. It has a high protein content and carries vitamins of importance they say. The Indians said that Pop Corn was good for man and child and knew that with a winter diet of meat, it was necessary to have roughage such as Pop Corn.



Japanese Hulless Pop Corn.

HERBS AND MISCELLANEOUS VEGETABLES



New York Improved Egg Plant.

HERBS FOR SEASONING

Herbs are essential for flavoring and seasoning. They can be used fresh during the summer. For winter use, dry the young stems and leaves, tie in bunches and store in Mason jars, to keep out air and dust.

660. CARAWAY—Grown for the seeds, which are used for flavoring. Pkt. 10c, oz. 25c, prepaid.

661. CHIVES—Used for seasoning. Of mild onion flavor. Pkt. 10c, ½ oz. 35c, oz. 50c, prepaid.

For CHIVE PLANTS. See page 26.

663. DILL—Seeds have an aromatic odor and pungent taste. Is used for pickles. Pkt. 10c, oz. 15c, ½ lb. 50c, lb. 90c, prepaid.

664. LAVENDER—An aromatic herb. Much used to perfume linens. Pkt. 10c, oz. 50c.

671. MARJORAM—The young, tender tops are used green for flavoring, or they may be dried for winter use, for flavoring broths, dressings, etc. Pkt. 10c, oz. 35c, prepaid.

674. SAGE—The leaves and tops are used very extensively for seasoning. Pkt. 10c, oz. 35c.

675. SUMMER SAVORY—A hardy annual. The dried stems, leaves and flowers are fine for flavoring soups, dressing, etc. Pkt. 10c, oz. 30c.

676. THYME—The young leaves and tops are used for seasoning soups, in dressings, etc. Pkt. 10c, oz. 50c.—All above are prepaid.

COLLECTION OF FIVE POPULAR HERBS

One packet each: Dill, Sweet Marjoram, Sage, Thyme, Summer Savory, (value 50c) for 30c, prepaid.

LEEK

A species of onion, valuable for flavoring soups. Plants should be thinned to stand 4 to 6 inches apart in the row. When 6 or 8 inches high transplant in rows 10 inches apart each way, as deep as possible, that the neck may be blanched.

211. LONDON FLAG—The variety generally cultivated. It is hardy and of good quality. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

MUSTARD

315. WHITE ENGLISH—Leaves are comparatively smooth and deeply cut; color medium dark green. Mustard leaves are used as a salad, or cut and boiled like spinach. Seed is used for flavoring, in pickles, etc. Pkt. 8c, oz. 10c, ¼ lb. 25c, lb. 75c, prepaid.

NEPONSET BLACK FLOWER POTS

Adapted for growing, transplanting or shipping. Made of tough, waterproof, black paper, eliminating breakage. Permits speed in handling and more economical than clay pots. Used by the best gardeners everywhere.

	Dozen Prepaid	100 Prepaid	1,000 Not Prepaid
2 -inch	.....\$0.18	\$0.70	\$ 5.25
2 ½ -inch	......20	.80	6.25
3 -inch	......22	1.00	7.50
3 ½ -inch	......27	1.25	9.75
4 -inch	......30	1.60	11.50
5 -inch	......35	1.75	15.75



EGG PLANT

1 oz. for 1,000 plants.

Seed should be sown in hotbed or greenhouse in March or April, and when about an inch high, pot in 2 or 3-inch pots. Plant out about June 1st, 2 ½ feet apart each way.

300. NEW YORK IMPROVED LARGE PURPLE SPINELESS—The plants are large, vigorous, spreading, and the fruits are very large, oval, of glossy, dark purple color; usually 4 to 8 fruits are produced by a plant. Pkt. 8c, ½ oz. 20c, oz. 35c, ¼ lb. \$1.25, prepaid.

302. BLACK BEAUTY—Desirable for the northern states. Earlier than New York Spineless. The fruits are broad, thick, of most attractive form and finest flavor. Their rich, lustrous, purple color is very uniform. Pkt. 8c, ½ oz. 20c, oz. 35c, ¼ lb. \$1.25, prepaid.

ENDIVE

305. GREEN CURLED—A very beautiful sort of which the leaves are very light colored, even the outer ones being nearly white. They are crisp and tender. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25, prepaid.

307. BATAVIAN—Large heads of broad, thick leaves, which can be blanched as salad or used for cooked greens. A very fine variety. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25, prepaid.

CHIVE PLANTS. See page 26.

CRESS. See page 8.

GOURDS. See page 50.

GROUND CHERRY. See pages 25 and 26.

HORSE RADISH. See page 26.

GARLIC

Produces fine, solid, white bulbs in clusters that are used for flavoring sausages, soups, salads, etc. They are easily grown and used quite generally. We offer choice bulbs for planting. ½ lb. 20c, lb. 35c, prepaid. Not prepaid, 5 lbs. \$1.40.

KALE OR BORECOLE

Borecole or Kale is a cabbage-like plant which forms no heads, but is used like spinach, for fall, winter and spring greens. Dwarf Kale can be sown late, and need not be transplanted. Frost improves the flavor and quality.

75. DWARF GREEN CURLED—Plant is low and compact with large, bright green leaves, curled, and wrinkled. A healthy vegetable, and one of the most palatable when well cooked. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, prepaid.

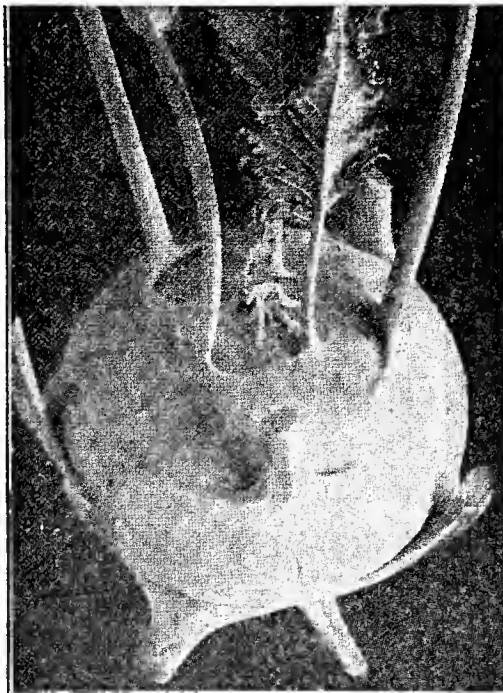
KOHLRABI

Roots grow above the ground and are cooked like turnips, but are of much milder, more delicate flavor, and very tender. Sow in drills 18 inches apart, and thin to stand 4 or 5 inches apart in the rows.

310. EARLIEST FORCING—A fine new strain and the earliest white Kohlrabi grown. Has small leaves and a very small top. It cooks up white and tender and has a delicious flavor. Pkt. 8c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

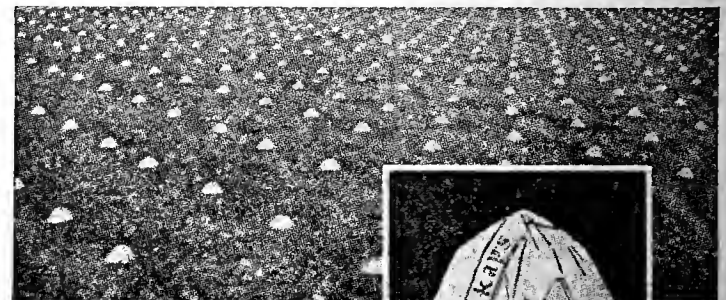
311. EARLY WHITE VIENNA—Very handsome, white fruit. Excellent both for forcing and open ground; flesh white and very tender; leaves short. Pkt. 8c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

A good garden will save 20% of your food cost.



Kohlrabi Early White Vienna.

Get
Bigger
Crops to
Market—
3 Weeks
Earlier!



"GERMACO" HOTKAPS

MODERN INVENTION PROTECTS PLANTS FROM FROST.

"GERMACO" HOTKAPS can make many extra dollars for you this season. They are patented wax paper cones—"Individual hothouses for each plant"—that completely cover them, and fully protect them from frost, wind, rain, ground-crusting, and insects. This is your assurance of earlier, bigger crops, and higher early-to-market prices. Hotkaps are inexpensive and easy to use. One man "sets" over 2,500 per day.

Hotkaps enable growers to market crops three weeks earlier and reap the fancy prices paid early in season.

Prices: 1,000 lots, \$9.75; 5,000 lots, \$9.60 per M; 10,000 lots, \$9.50 per M; 250 Trial Package, including Garden Setter with Tamper, \$3.50; 100 Home Package, including Garden Setter with Tamper, \$2.25 f.o.b. Faribault.

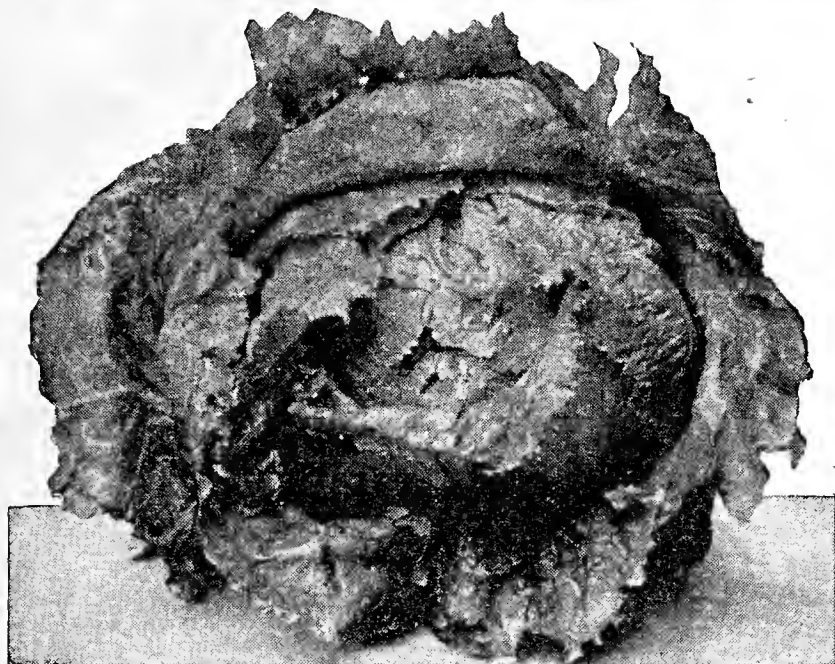
Weights: 1,000, 28 lbs.; 250, 9 lbs.; 100, 5 lbs.

Steel Hotkap, Setter and Tamper, \$2.25.

Garden Setter, each 50c.

Steel Tampér, each 25c.

A Sure Way to Better Your Profits.



Crisp-As-Ice Lettuce.

HEAD LETTUCE

CULTURE—For early crops start seed in March in the hotbed, covering $\frac{1}{4}$ inch. When seedlings are 2 inches tall, transplant to coldframes, setting them 4 inches apart each way. When the ground is warm enough transplant to garden, setting plants 1 foot apart, in rows 12 to 16 inches apart. For general crop, make successive sowings during April and May, thinning plants to proper distance apart. For a fall crop sow seed in August, to head during the cool weather of September and October.

331. ALL SEASONS—Large, handsome, solid heads, rather flat. The leaves are soft greyish green, broad and slightly wrinkled while the inner ones are beautifully blanching, thick and of finest flavor. Very crisp and tender, having that "buttery" quality so much liked. It resists heat exceptionally well, and may be grown in the open from early until late in the season. Best for successive crops. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

332. F. S. & N. CO'S MAY KING—The earliest head lettuce. Equally desirable for market and the home garden. Heads medium sized, with outer leaves folding close to the head, thus permitting close planting for frame work; color light green, outer leaves tinged slightly brown; heart of a beautiful appetizing yellow. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

334. MIGNONETTE—For the home gardener who demands quality above all else, this is the ideal variety. It cannot be bought on the market, as market gardeners do not consider it profitable on account of its small size. It is, however, so deliciously sweet flavored and tender that it is well worth growing. The outer leaves are curled and slightly tinged with brown, the hearts are creamy-white. It is a sure solid header, and slow to go to seed. Extremely hardy and fine for early spring use as well as for forcing. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

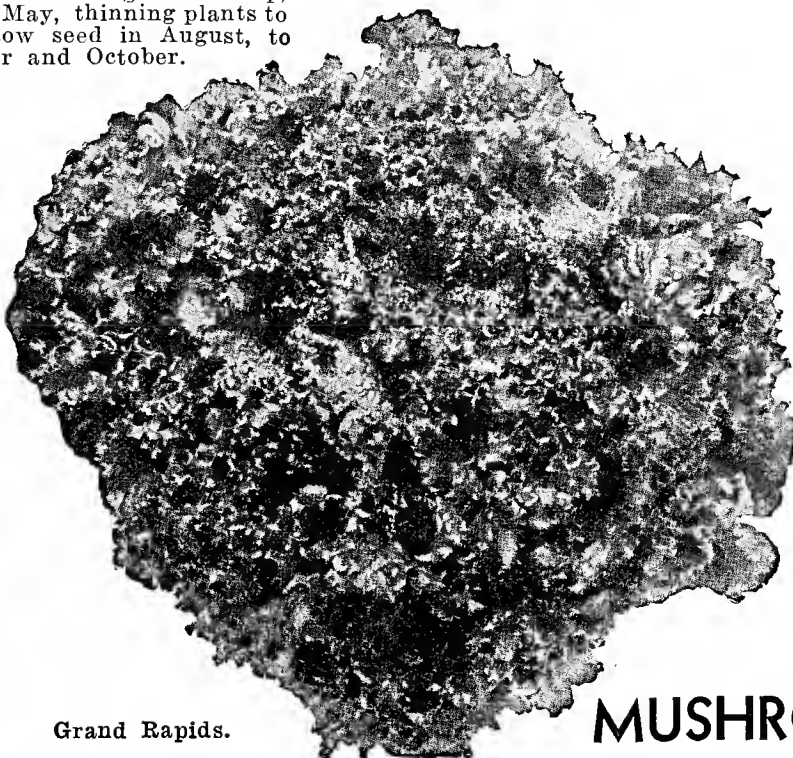
335. CRISP-AS-ICE—A favorite variety forming decidedly solid heads, the interior of which are well blanching, sweet and tender. The leaves are exceedingly crisp and brittle, the outer ones being variegated brown and green. They are thick, broad and slightly blistered. Ready in 55 days. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

336. HANSON—The standard summer cabbage-heading variety for either the home or market gardener. Very reliable and a sure header. A large, late variety, forming a hard head of light green of best quality. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

338. WONDERFUL OR NEW YORK—A large variety of very good quality, fine flavor, sweet and crisp, and of dull green color; a good shipper. A favorite with market gardeners near New York and one of the best for the private garden; unfit for forcing. Excellent for mid-summer. This variety is also known as the "Los Angeles." Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.90, 2 lbs. \$3.60, prepaid.

339. BIG BOSTON—A very popular sort with market gardeners; succeeds well in late fall, but also a good summer lettuce and fine for forcing. Hardy, reliable, a sure header, and a splendid shipper. The plants form large, compact heads, leaves light dull green with light brown border. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

340. MIXED LETTUCE SEED—All kinds mixed. If not sown too thickly, will make a continuous crop. The best early and late varieties of curly leaf as well as head lettuce. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00, 2 lbs. \$1.80, prepaid.



Grand Rapids.

LETTUCE

1 oz. will sow 125 ft. of row; 4 to 5 lbs. plant an acre.

CURLED OR LOOSE LEAF SORTS

CULTURE—Sow as early in spring as the ground can be worked, in rows 12 inches apart; cover seed $\frac{1}{4}$ inch. A rich, sandy loam is best. When plants are 3 or 4 inches tall, thin out to stand 6 inches apart. For early crop, start in hotbed in early March, later transplanting the seedlings to coldframes, or to a sheltered position in the garden. If lettuce is cut above the crown, it will grow new leaves. Shooting to seed is due to hot weather and cannot be controlled, for this reason it should be sown very early.

325. GRAND RAPIDS—The best and most profitable sort for forcing. Grown almost exclusively by market gardeners. A splendid shipper, not apt to rot. Plant is upright and forms a loose head or a cluster of light green leaves. One of the very best leaf lettuces for the garden. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.35, 2 lbs. \$2.50, prepaid.

326. BLACK-SEEDED SIMPSON—One of the best and most largely planted bunching varieties; excellent for forcing as well as for growing outdoors. Distinctly a market gardener's sort, but also very satisfactory for home use, as it is very reliable and easily grown; it succeeds during summer when more delicate sorts fail. Leaves broad, sweet and tender. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25, 2 lbs. \$2.35, prepaid.

327. SIMPSON'S EARLY CURLED—(Seed white.) Early, erect growing. Leaves broad, often frilled and blistered, and formed into a loose head; light green in color; sweet, tender and well flavored. May be cut when very young. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25, 2 lbs. \$2.35, prepaid.

328. FIRST OF ALL—The earliest curled leaf variety suitable for outdoor culture or forcing. Exceptionally tender and sweet. Leaves are crumpled, heavily fringed, and of light green color. Pkt. 8c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50, 2 lbs. \$2.75, prepaid.

329. PRIZEHEAD—An excellent home variety and planted more extensively for family use, than any other kind; not suited for shipping and not adapted for forcing. The plant consists of a loose cluster of leaves, of bright brown color, varying to bright green; the quality is very fine, tender and crisp. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25, 2 lbs. \$2.35, prepaid.

341. CHICKEN LETTUCE—Chickens need green food. This lettuce will yield a large amount of greens throughout the season, as it makes successive crops after cutting. Oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00, 2 lbs. \$1.80, prepaid.

Thompson, No. Dak., Feb., 1932.
F. S. & N. Co.

We surely had a nice garden again last year. The Sweet Corn and ripe Tomatoes were grand. We picked dozens of nice ripe Muskmelons every day for a month, which is unusual around here.

Mrs. Val H. West.

MUSHROOM SPAWN

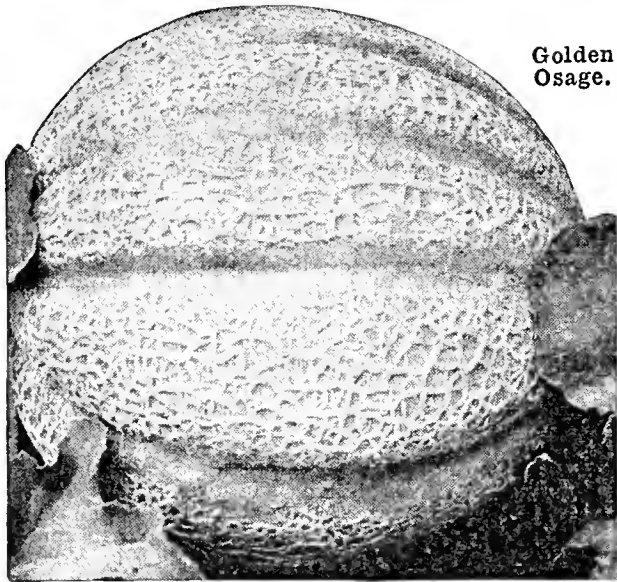
American Pure Culture—This spawn is obtained by selecting spores from individual specimen mushrooms, and is propagated and transferred to bricks of manure, which will produce mushrooms true to type with exceptional uniformity and regularity. Bricks weigh about $1\frac{1}{2}$ lbs.; a brick will spawn a bed 10 feet square. Pamphlet on mushroom culture with every order.

To grow mushrooms on the lawn, break up the brick of spawn into inch square pieces. Have ready some fresh horse manure, and place a trowel full under the sod at intervals about the lawn. Put a piece of spawn on the manure, and replace the sod. Do this in May. After the warm rains, the lawn will be full of mushrooms.

Price: Brick, 40c, prepaid.—Not prepaid: 5 bricks, \$1.65; 10 bricks, \$2.75.



Mushrooms from Spawn.



Golden Osage.

MUSKMELON

One ounce of seed will plant 60 hills, 2 to 3 pounds per acre.

CULTURE—Muskmelons or cantaloupe require warm, rich soil, slightly sandy. Plant when all danger of frost is past, in hills 6 feet apart each way, 8 to 10 seeds to a hill. Well-rotted manure carefully worked into the soil is beneficial. After danger of insects is past, thin out to 3 or 4 plants to a hill. Cultivate until vines cover the ground, and pinch off the ends of the vines. Give them plenty of moisture. Early melons ripen in 80 to 100 days. General crop, 110 to 140 days.

SALMON FLESHED VARIETIES

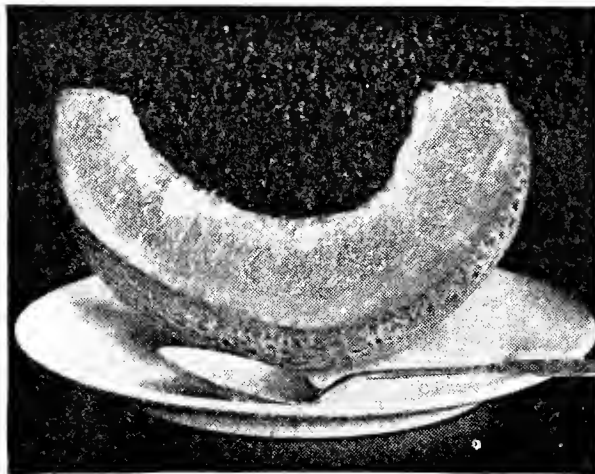
359. EARLY LAKE CHAMPLAIN—Absolutely the earliest of all, and of much finer quality than any other early sort. Melons are of medium size, well netted, with golden yellow flesh that is of deliciously melting flavor. Pkt. 8c, oz. 15c, ¼ lb. 35c, lb. \$1.25, 2 lbs. \$2.25, prepaid.

357. NEW SUGAR ROCK OR HONEY ROCK—This is the newest outstanding muskmelon. It's a money-maker and a source of pride for every grower because of its handsome appearance, marvelous flavor and wonderful shipping qualities. Sweet as sugar, solid as a rock and easy to grow, is the verdict.

Sugar Rock is a strong grower and heavy yielder, producing as high as five to seven

fruits per vine. It is not an extra early variety, but mid-season or about 85 days from seed—has deep orange flesh, with a flavor different from most other sorts, which can only be appreciated by tasting. In competition with other varieties, sold wholesale and by roadside stands, Sugar Rock averaged 50% more in price per pound. The originator averaged \$50.00 per acre from 14 acres of Sugar Rock Melon last season. Pkt. 8c, oz. 18c, ¼ lb. 45c, lb. \$1.50, 2 lbs. \$2.75, prepaid. See back inside cover.

358. HALES BEST—A very popular melon for market and grown quite extensively for shipping. The flesh is of salmon-pink color clear to the rind, and the quality is excellent. Its sweet aromatic flavor never disappoints. Oval shape—medium size, about 8 inches long and 5 inches in diameter. Medium early and a good yielder. This melon withstands drought remarkably well and for long distance shipping it cannot be surpassed. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, 2 lbs. \$2.10, prepaid.



Early Lake Champlain.

361. PREMIUM OSAGE—(Special Strain.) An improved strain of the popular Osage, being a few days earlier, and covered with thick, grey netting. Flesh is deep salmon, thick and firm, and of luscious flavor. A fine keeper and shipper, more extensively grown by market gardeners than any other sort. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, 2 lbs. \$2.10, prepaid.

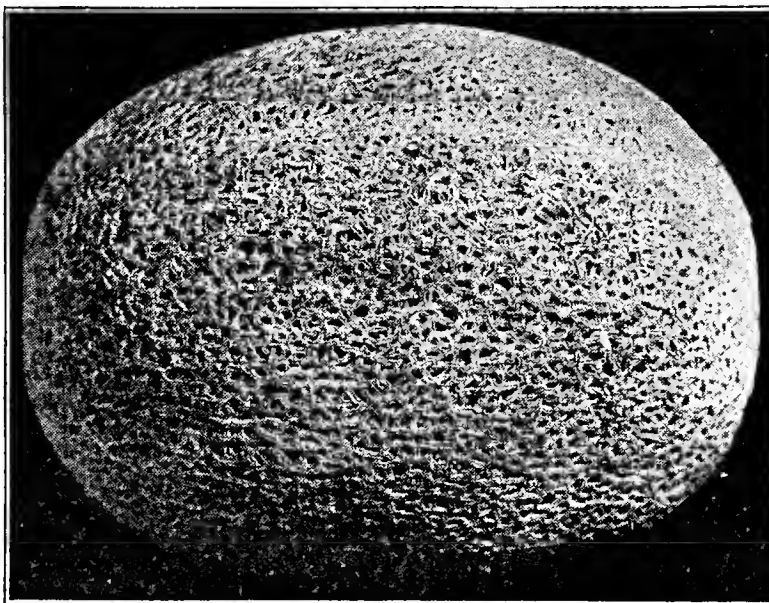
362. EMERALD GEM—Luscious salmon-pink flesh, thick and sweet. An excellent home garden melon, with rich dark green skin; of flattened shape and handy size. Unsurpassed in sweetness and enormously productive. It matures very early. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, 2 lbs. \$1.75, prepaid.

363. YELLOW MEATED JAPAN—The flesh is thick, salmon colored, and of sweet, delicious flavor. Fruits are of large size, nearly round, slightly ribbed. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, 2 lbs. \$1.75, prepaid.

364. HEARTS OF GOLD—A beautiful golden salmon fleshed melon that ripens in 70 days. The fruits are uniform in size, averaging 5 inches in diameter, and very productive. As many as 12 melons have been picked from one vine. The flesh is thick and tender, and ripens clear to the skin. Fine for shipping or home garden. Pkt. 5c, oz. 15c, ¼ lb. 35c, 1 lb. \$1.15, 2 lbs. \$2.10, prepaid.

369. BENDER'S SURPRISE—Fruits are oval, light green turning to a golden tint when fully ripe, and coarsely netted. Flesh deep orange, very thick and sweet. The melons weigh up to 10 lbs. and keep a week after picking, actually improving in flavor. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, 2 lbs. \$1.75, ppd.

349. MILWAUKEE MARKET—A delicious, large salmon fleshed sort; slightly oval in shape, heavily netted and with prominent ribs. Uniform as to size and quality. Flesh is salmon colored, thick and firm, and of aromatic flavor. Medium early, producing ripe melons late in August. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, 2 lbs. \$2.10, prepaid.



Hales Best.

GREEN FLESHED VARIETIES

350. MINNESOTA MELTING SUGAR—The sweetest, richest flavored of all green-fleshed muskmelons. Fruits are oval in form, distinctly ribbed and heavily netted. The flesh is very firm, of green color, exceptionally sweet, sugary, juicy and tender, with a rich aromatic flavor. Vines yield an abundant crop of uniform sized melons, early in season. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.15, 2 lbs. \$2.10, prepaid.

351. EXTRA EARLY HACKENSACK—A selection of the Hackensack, ripening fully ten days earlier. The melons are of good size, heavily ribbed and netted, and have thick, light green flesh of fine flavor; they are very early, hardy and prolific and among the best market varieties. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, 2 lbs. \$1.75, prepaid.

East Grand Forks, Minn., Aug. 25, 1932.
We are getting exceptional results from your early Melons. Our two-acre field of Lake Champlain and Osage is yielding over 300 per day of very luscious cantaloupes. Since August 17 (83 days from sowing), have between 1,000 and 1,500 of them. Also the two varieties of Watermelons, Winter and New Wonder, are a wonderful sight.
This is our best year in many, thanks to your seeds.

F. L. Weekley & Sons, Proprietors,
Northwestern Plant & Floral Co.

Special All-Season Collection

Here is a Collection that will keep you supplied with luscious Muskmelons all season long. The cream of all varieties for home garden.

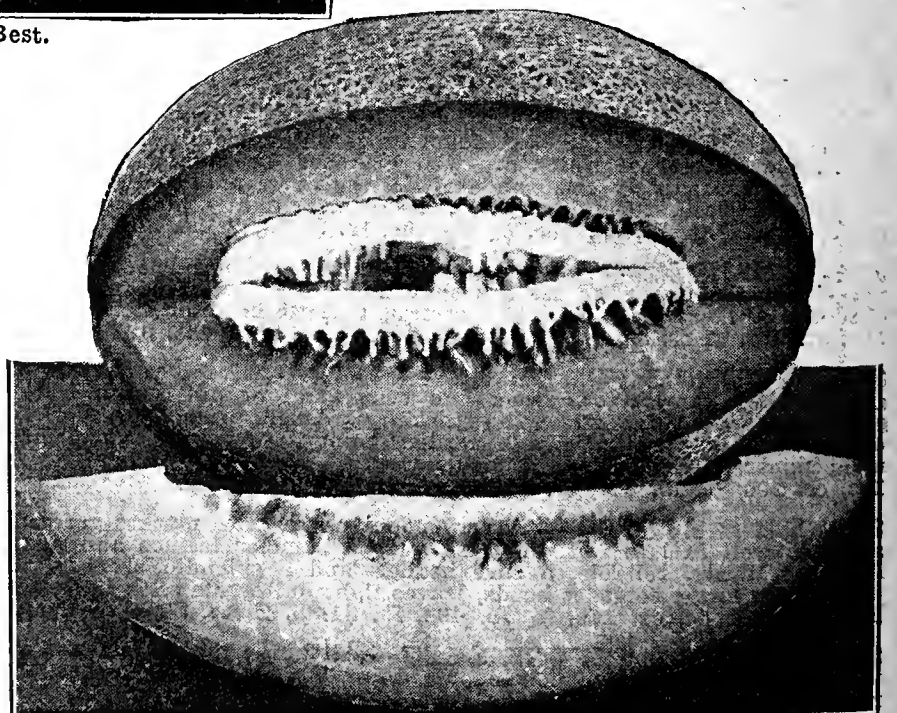
One packet each of the following:

Lake Champlain—Extra early.

Golden Osage—Medium.

New Sugar Rock—Main crop.

The 3 packets, all prepaid for 15c



Minnesota Melting Sugar—Best of the Green Sorts.

WATERMELON

One ounce of seed for 30 hills; sow 4 to 5 pounds per acre.

CULTURE—The best soil for growing watermelons is light, rich, and sandy. When the ground is thoroughly warm, and all danger of frost is past, drop 8 to 10 seeds in hills 8 to 10 feet apart, covering the seed about an inch. When the plants begin to run to vines, thin out all but the 3 strongest plants in each hill. Hoe often and thoroughly.

For bugs, dust with Kalite, Garden Guard or Nok-Em-Kold, and for lice, spray with Evergreen or Kaloil. See page 73.

370. COLE'S EARLY—This is one of the finest home garden melons for the Northwest as it matures several weeks ahead of most others. Fruits are oblong in shape, weighing about 15 to 20 pounds, dark green, striped irregularly with a lighter shade. The flesh is bright red, firm, lusciously sweet; there is little or no seed cavity, with but few seeds. Pkt. 5c, oz. 10c, 1/4 lb. 25c, 1/2 lb. 40c, lb. 75c, prepaid.

371. EARLY ROUND LIGHT ICING—About the earliest of all watermelons. The fruits are of medium size, nearly round, slightly veined, or dotted with light green. Flesh is light red, very sweet and crisp. Seeds are white. Especially adapted for the Northwest where seasons are short. Many gardeners have made fine profits with this melon. Pkt. 5c, oz. 10c, 1/4 lb. 35c, 1/2 lb. 60c, lb. \$1.00, prepaid. See inside front cover.

373. ANGELINO—(Black Seeded.) Fruits are round, dark green with slightly darker veins or mottlings. Flesh is brilliant red and of excellent quality. No trick to tell when this melon has reached maturity as the veining stands out distinctly when ripe. For market or home garden it will prove a pleasant surprise. Pkt. 5c, oz. 10c, 1/4 lb. 25c, 1/2 lb. 45c, lb. 85c, prepaid.

374. TOM WATSON—One of the most popular shipping melons, with very tough rind that is deep green, indistinctly veined. Fruits are very large and oblong, usually about 22 inches long and 12 inches in diameter, and weigh as much as 40 pounds. Flesh is deep red and sweet, coming very close to the rind. Seeds are brown. Pkt. 5c, oz. 10c, 1/4 lb. 25c, 1/2 lb. 45c, lb. 85c, prepaid.

384. WONDER MELON—It grows uniformly large and long, resembling Tom Watson, but is thicker, more solid, and usually larger and heavier, often weighing 40 pounds. The flesh is bright scarlet, and sweet to the rind; it is free from cores or hard centers. Seeds are small and white. The melon is deep shiny green, with a thin tough rind, and withstands shipping well. Pkt. 5c, oz. 10c, 1/4 lb. 35c, 1/2 lb. 60c, lb. \$1.00, prepaid.

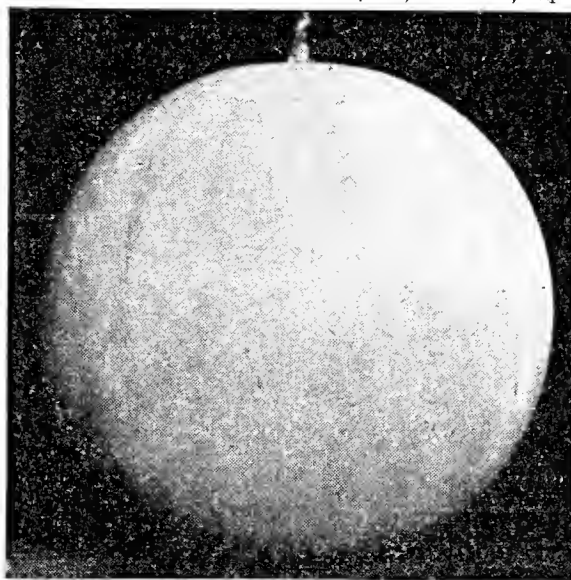
388. MIXED WATERMELON—For those of our customers wishing an assortment of watermelons, we have put up a special mixture containing our best and most popular varieties. Pkt. 5c, oz. 10c, 1/4 lb. 20c, lb. 65c, prepaid.

390. CITRON—For making preserves. Flesh is clear white and solid. Fruits are round and smooth, quite small. Pkt. 5c, oz. 10c, 1/4 lb. 25c, lb. 75c, prepaid.



New Early Klondike.

372. NEW KLONDIKE—A new black seeded strain of Klondike considered one of the best early watermelons from a real quality standpoint. We know of no sweeter melon among the extra early types. The color is dark green—shape long. The flesh is deep red, fine texture and exceptionally crisp and tender. It is a good yielder and will prove to be a profitable market melon for the Northwest. The seed supply of this new strain is still limited and early ordering is advisable. Pkt. 8c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 85c, lb. \$1.50, prepaid.



New Winter.

375. ICE CREAM OR PEERLESS—One of the best early sorts for private gardeners. Melons are medium sized, oval, bright green, finely mottled. Flesh is bright scarlet, solid, crisp, and sweet. A very prolific variety, white seeded. Not a shipping melon, but great for early selling or roadside market. Pkt. 5c, oz. 10c, 1/4 lb. 25c, 1/2 lb. 40c, lb. 75c, prepaid.

376. STONE MOUNTAIN—A large, quality melon, almost round. Rich green color. Flesh is bright scarlet—extremely sweet and of fine quality. This melon has very few seeds—almost all heart. Considered the best of the late introductions. We offer Michigan seed. Pkt. 8c, oz. 15c, 1/4 lb. 40c, 1/2 lb. 65c, lb. \$1.15, prepaid.

Battle Lake, Minn.,
Feb. 8, 1932.
F. S. & N. Co.
We are in the truck garden business and would like to have your special price list. I am one of your old customers and will have some big orders for you. I sure was satisfied with your dealings in the past.
Pete Peterson, R. 3.



Kleckley's Sweet, a delicious medium early Melon.

383. KLECKLEY'S SWEET—A high quality melon of large size, often reaching 22 inches in length and 40 pounds in weight. It is oblong, with dark green rind. Flesh is red, tender and meltingly sweet. The seeds are white and placed quite near the rind. This melon is very prolific and matures in about 80 days. Pkt. 5c, oz. 10c, 1/4 lb. 25c, 1/2 lb. 40c, lb. 75c, prepaid.

385. GOLDEN HONEY—Flesh is bright, golden yellow, firm, crisp and glistening, and fairly melts in your mouth. It is deliciously sweet, fully equal in flavor to the best red sorts. Melons are of medium size, oblong, with hard rind of deep green. Every garden should have a few of these melons. Pkt. 5c, oz. 10c, 1/4 lb. 35c, 1/2 lb. 55c, lb. \$1.00, prepaid.

386. EARLIEST AND SWEETEST—Just what its name indicates, the earliest and sweetest of all. Very prolific, often producing 6 to 8 melons on a single vine, that average 10 to 15 pounds in weight. Flesh is scarlet, of extra fine quality and free from stringiness. This is one of the best melons for growing in the Northwest. Pkt. 5c, oz. 10c, 1/4 lb. 25c, 1/2 lb. 40c, lb. 75c, prepaid.

382. NEW WINTER—A wonderful variety that keeps for 2 months after picking, if properly stored. The melons are quite small, average 10 pounds in weight, and look like the Honeydew muskmelon, with cream colored rind, faintly striped with light green. A very early sort, prolific, and a splendid shipper. Flesh is equal to the best, bright red, sweet as honey, with small black seeds. Winter Watermelons are often sold in October and November. Pkt. 8c, oz. 15c, 1/4 lb. 40c, 1/2 lb. 65c, lb. \$1.20, prepaid.

OKRA OR GUMBO

The young seed pods of this plant are used for the well known and delicious gumbo soups. Plant in spring as soon as danger of frost is past. Cultivate the same as corn.

215. WHITE VELVET—Height 3 1/2 feet; long white pods. Pkt. 5c, oz. 15c, 1/4 lb. 30c, lb. 75c, prepaid.

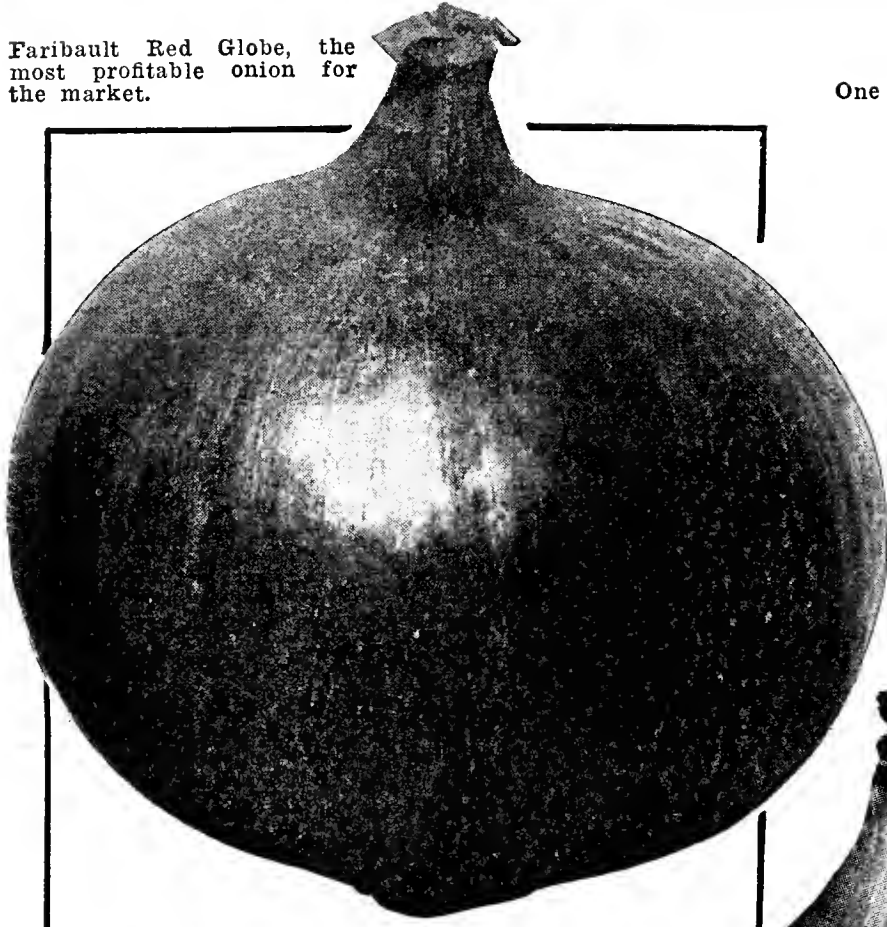
217. DWARF GREEN—Grows low, is very productive. Pkt. 5c, oz. 15c, 1/4 lb. 30c, lb. 75c, prepaid.

Our Special Market Gardeners' Price List gives wholesale quotations on finest strains of vegetables for market selling. Don't fail to ask for it.



Cole's Early.

Faribault Red Globe, the most profitable onion for the market.



395. FARIBAULT RED GLOBE, Special Strain—We offer a special strain of Red Globe produced by years of careful breeding. The perfect globe type is thoroughly established in this variety, and the onions are always of the most uniform shape. The bulbs are of a dark red color, very attractive in appearance. They are thin necked, ripening down to a hard, solid ball. This is the best onion for winter use, an excellent keeper, and most profitable for market. Pkt. 8c, oz. 15c, ¼ lb. 45c, lb. \$1.60, 2 lbs. \$3.00, prepaid.

We cater to the leading market growers of the N. W. Our Onion strains are being used in the chief Onion districts.

403. LARGE RED WETHERSFIELD—This is the most extensively grown large red onion, and is an exceptionally heavy yielder, and a splendid keeper. There is no better onion grown, as far as earliness, beautiful form and color are concerned, and in productiveness and long keeping qualities, it excels most others. The bulbs are of large size, and though somewhat flattened, are thick through; skin is glossy deep red; flesh is purplish white, and of excellent, rather strong flavor. Flat onions mature earlier than the globes, and are therefore more suitable for northern sections, and for dry, sandy soil, than the globe varieties. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.50, 2 lbs. \$2.80, prepaid.

407. YELLOW GLOBE DANVERS—An early, almost true globe-shaped onion, with beautiful brownish yellow skin, and pure white flesh of very choice quality. Bulbs grow uniformly to about 2½ inches in diameter, and are excellent keepers. This variety ripens several weeks earlier than the Southport Globes, and generally brings the highest prices paid for early onions. It is one of the best winter onions to grow in the home garden. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.50, 2 lbs. \$2.80, prepaid.

408. MAMMOTH SILVER KING—Very beautiful onions, of slightly flattened shape, but thick through, and averaging from 5 to 7 inches in diameter. The skin is silvery white; flesh is very mild and sweet, making it one of the very best for the table. An ideal sort for the market, or for exhibition purposes. Pkt. 8c, oz. 15c, ¼ lb. 45c, lb. \$1.60, 2 lbs. \$3.00, prepaid.

F. S. & N. Co.

Rattlesnake, Mont., Feb. 18, 1932.

I bought my garden seeds from you ever since I started in the livestock business on my own hook, in 1911—raised a good garden every year except last year when the creek did go dry and there was no water to irrigate even the garden.—Leo Huebl.

ONION SEED

One ounce of seed will sow 150 feet of drill; sow 5 to 6 pounds per acre.

CULTURE—The soil should be very carefully prepared for onions. The richer the soil, the better the crop will be. Plenty of fertilizer and wood ashes, well spaded in, are essential. Sow the seed as early as the ground can be worked, in rows 15 to 18 inches apart, covering ½ inch deep. When the seedlings are 3 or 4 inches tall, they should be thinned out to stand 3 inches apart in the row. Keep them free from weeds and hoe often.

Pull the onions when the tops die down, dry them off, and store for winter use in a cool, dry place.

The Globe onions are the best keepers, and the best winter onions. White onions are of milder flavor than the red and yellow, therefore most desirable for the table. Prizetaker, Silver King, and Sweet Spanish are the mildest of all. Prizetaker, Mountain Danvers and Yellow Globe onions, being very mild and also excellent keepers, are the best to grow for the home garden. Barletta and Silverskin are grown largely for pickles, and White Welsh for "green" onions.

397. MINNESOTA SOUTHPORT YELLOW GLOBE—The most beautiful yellow onion of fine globe shape, golden yellow color, large size, being 3 to 3½ inches in diameter, and mild flavor. It is a heavy cropper, an excellent keeper and good shipper. It matures in 105 to 115 days. The best, yellow variety to grow for the market. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.50, 2 lbs. \$2.80, prepaid.

398. MINNESOTA SOUTHPORT WHITE GLOBE—The handsomest onion grown; it sells at a higher price than all other sorts. Perfectly globe-shaped; thin, delicate skin of snow white color. Flesh is firm, fine grained and of mild flavor; a tremendous cropper and good keeper. To get fine white onions great care should be exercised in harvesting and curing the crop. Pull as soon as onions are ripe enough to harvest and dry in an airy and shady place. Pkt. 8c, oz. 20c, ¼ lb. 60c, lb. \$2.25, 2 lbs. \$4.20, prepaid.

399. MOUNTAIN DANVERS—(Long Keeping Strain.) This strain is commanding a lot of attention as it is the earliest yellow globe variety and was developed in the mile high regions of Colorado. It remains firm and usable much longer than any other variety—its color is a fine golden yellow—flavor is mild, and its earliness and long keeping qualities make Mountain Danvers most suitable for marketing and a profitable variety to grow. Pkt. 8c, oz. 15c, ¼ lb. 45c, lb. \$1.60, 2 lbs. \$3.00, prepaid.

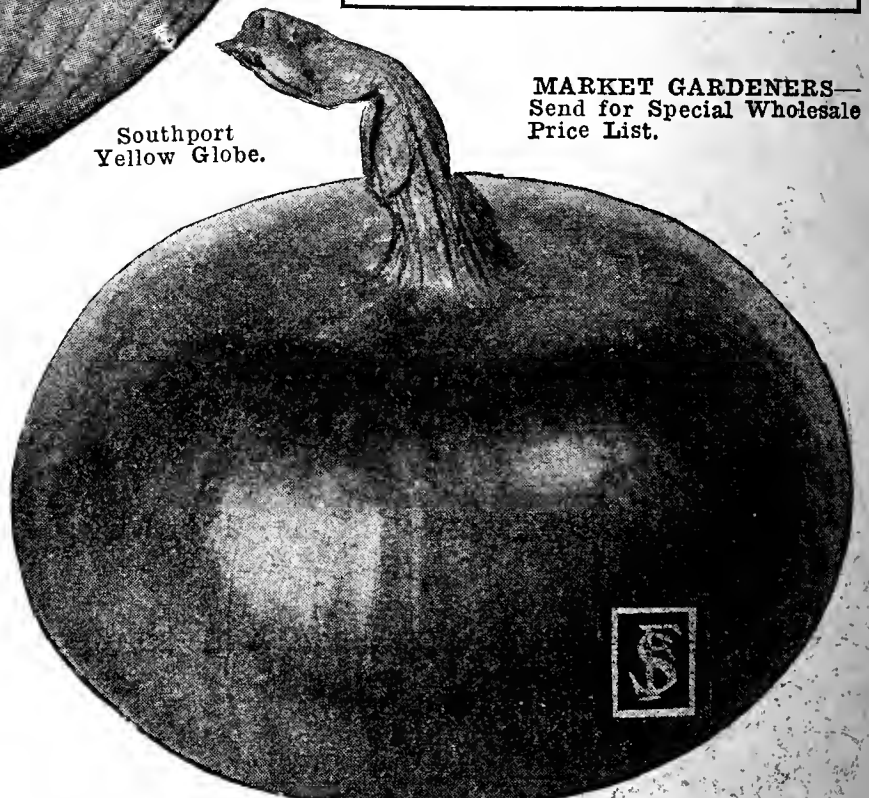
402. EBENEZER OR JAPANESE ONION—Large, somewhat flattened onions, yellow skinned, with small tops. They mature early, and keep hard and sound all winter. For the home garden and table use, there is no better flavored onion, and few varieties keep as well. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.50, 2 lbs. \$2.80, prepaid.

Don't Let Insects Take Your Profits.

Onion Thrips, Plant Lice, White Flies, may be controlled by using Kaloil—the non-poisonous pyrethrum spray. A product of modern science. Needs no soap, heating or special preparation. See page 73 for particulars and prices.

Southport Yellow Globe.

MARKET GARDENERS—Send for Special Wholesale Price List.



Large Red Wethersfield, a heavy yielder, good keeper.

ONION SEED AND SETS

405. WHITE BERMUDA OR CRYSTAL WAX—Very large flat onions, with a pleasant, mild flavor, and flesh of delicate texture. Beautiful in appearance, both skin and flesh being clear white. An extra fine onion for the home garden. Should be planted early. Pkt. 10c, oz. 25c, ¼ lb. 85c, lb. \$3.00, prepaid.

406. PRIZETAKER—This onion is remarkable on account of its great size and splendid quality. It is a yellow globe, very uniform in shape, with skin of bright straw color. It is of the same type as the large Spanish onions, that sell for a fancy price. The flesh is pure white and fine grained, mild and delicate in flavor. Prizetaker onions grow to immense size, from 12 to 16 inches in circumference, some weighing from 3 to 5 pounds each. Prizetaker requires a long season, and should be started early. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.65 2 lbs. \$3.00, prepaid.

409. EXTRA EARLY BARLETTA—The best variety for small pickles. It is the earliest ripening onion in cultivation. The bulbs are pure paper-white, very small, averaging only from 1 to 1½ inches in diameter; they are of flat shape and very mild flavor. To grow small pickling onions plant the seed thickly in drills; 15 inches apart, using 4 to 5 pounds per acre. Pkt. 8c, oz. 20c, ¼ lb. 55c, lb. \$2.00, 2 lbs. \$3.75, prepaid.

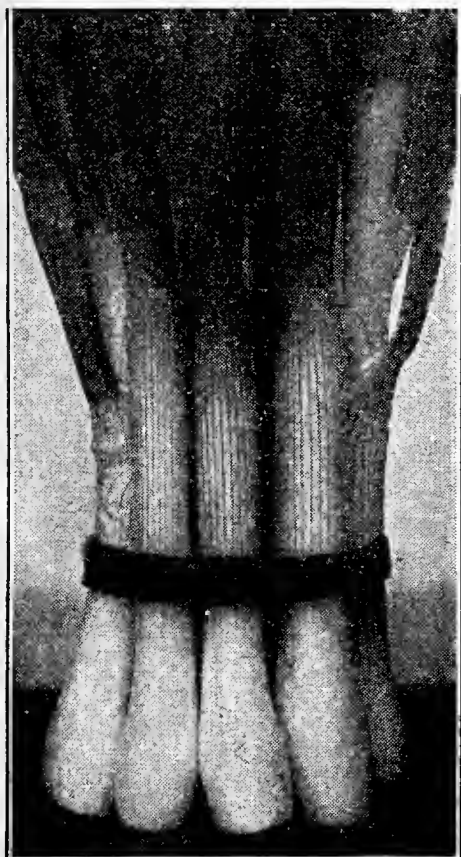
410. EARLY WHITE WELSH—Perennial and the best "green onion." This variety does not produce bulbs, but being a perennial, it provides a good crop of green onions in the spring, and may be left in the ground for years. A profitable sort for the market gardener. Seed may be sown in August or September, to produce green onions early in spring. Pkt. 8c, oz. 25c, ¼ lb. 70c, lb. \$2.50, prepaid.

411. WHITE PORTUGAL OR SILVERSKIN—A medium sized onion of mild flavor and beautiful, clear white skin. A favorite with many for use when young as a bunching onion and for pickles; it is also a good keeper and fine for fall and early winter use. Used largely for the growing of white sets. Pkt. 8c, oz. 20c, ¼ lb. 55c, lb. \$2.00, 2 lbs. \$3.75, prepaid.

414. MIXED ONION SEED—This mixture contains seed of all varieties, Globe, Wethersfield, early and late, and "green" onions. It is fine for the small garden, as it will furnish a supply of onions all summer and for winter storage. Also recommended for growing sets. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50, 2 lbs. \$2.75, prepaid.

CHIVES—See Page 26.

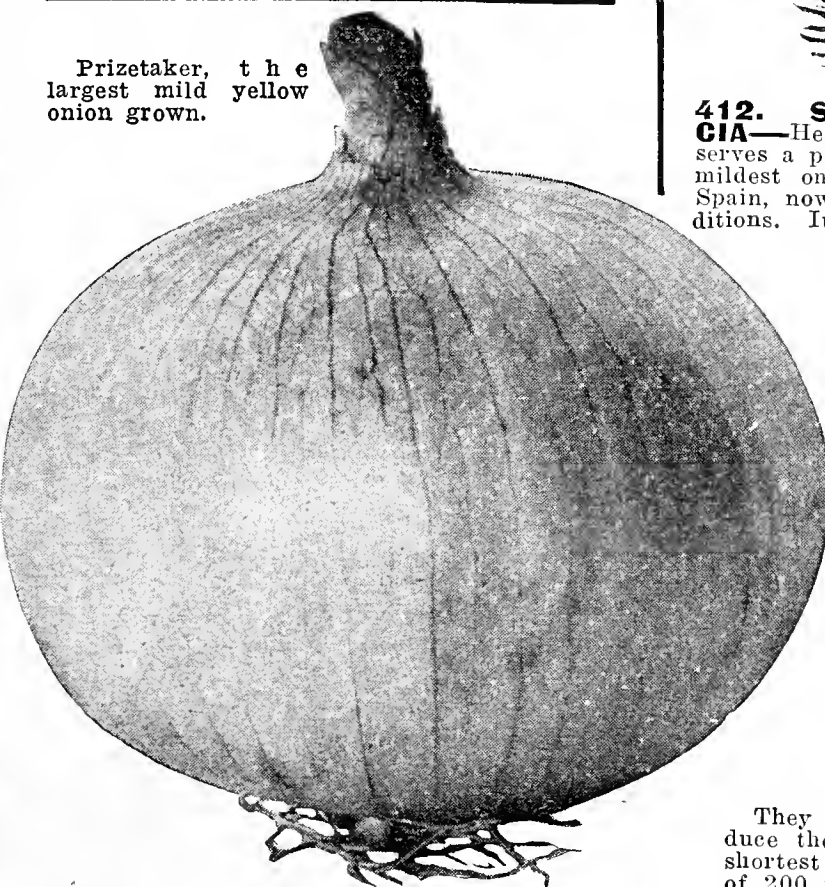
For the most practical gardening tool and implements at low cost, see page 74. Garden fertilizers on page 72. Insecticides on page 73.



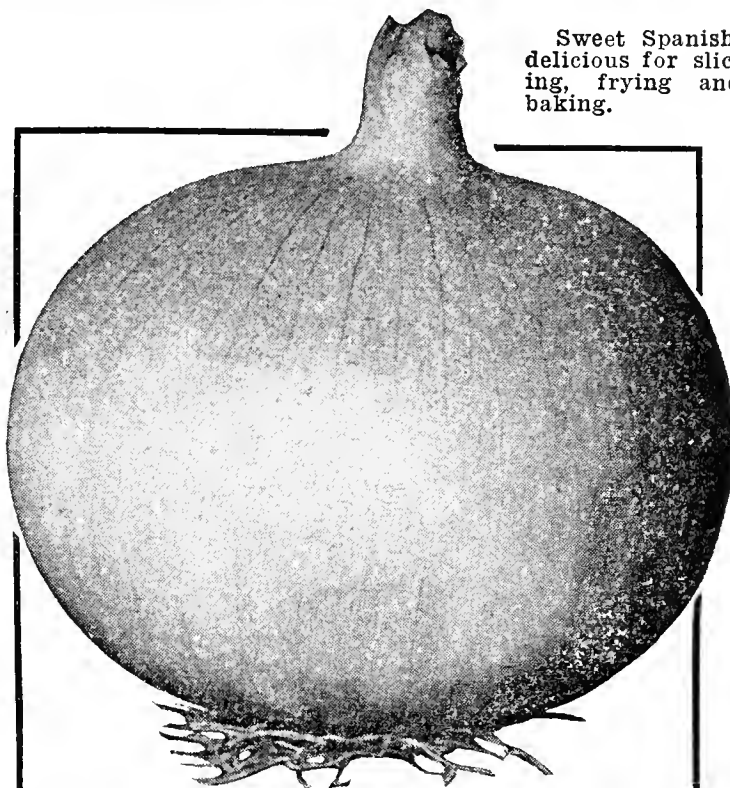
Early White Welsh, the best "green onion."

Some lost money on onions in 1932 but seldom do two bumper crops follow in succession. The wise grower plants when prices are low. He usually cashes in with fine profits the following season.

Prizetaker, the largest mild yellow onion grown.



Sweet Spanish, delicious for slicing, frying and baking.



412. SWEET SPANISH OR VALENCIA—Here is a new variety of onion that deserves a place in every garden. It is about the mildest onion in cultivation, a product of old Spain, now acclimated to our own growing conditions. In size and shape, it greatly resembles the Prizetaker with skin a bright golden straw color. For table slicing, this variety is a rival of the Bermuda—it may be eaten like an apple and is bound to become one of the leading varieties. One of the best profit makers for gardeners right now. Pkt. 8c, oz. 20c, ¼ lb. 75c, lb. \$2.75, 2 lbs. \$5.25, prepaid.

BERMUDA ONION PLANTS

Grow your own first young table onions from Bermuda Onion Plants. The plants are grown in Texas from the finest strains of Onion Seed. Like our Frost Proof Cabbage plants, these onions are grown from seed outdoors, during the winter, and are subjected to cold, ice and snow. They will produce onions two weeks ahead of those raised from seed, and are just about as cheap.

They are perfectly hardy, easy to grow and produce the finest mild flavored young onions in the shortest possible time. We ship them in bundles of 200 plants, all ready to set out, guaranteed to reach you in proper growing condition. Use them as green onions, or let them develop to creaming size. If allowed to continue growing they will develop good sized bulbs. Orders will be shipped at proper time for setting out. Set out 100,000 plants per acre.

We can usually supply the following varieties: Yellow Bermuda, Crystal Wax, Prizetaker and Valencia, but in case of shortage we reserve the right to send the varieties available when order reaches us. We prepay to 3rd zone only (300 miles). Beyond that at customers risk. Price: 200 plants 40c, 500 plants 75c, 1,000 plants \$1.15, prepaid.—Not prepaid, case of 6,000 plants, \$4.25. Weight per case, 35 lbs.

ONION SETS

32 lbs. equal 1 bushel. One lb. of sets will plant 25 feet of row or 12 bu. will plant an acre.

Onion sets are planted for onions for early spring use. A pound or two is sufficient for the average family garden. They produce green or bunch onions in half the time it takes to raise these from seed, and can be planted before it is safe to plant anything else.

We quote prices on one pound quantities prepaid. For larger quantities, add postage.

JAPANESE OR EBENEZER ONION SETS—In shape and color, this variety resembles Yellow Globe Danvers, but it generally produces 50% more onions per acre. Its great superiority over other onions is the big yields, long keeping quality, and freedom from going to seed. Japanese sets produce marketable onions in June and July, long before any others are ready. Price: Lb. 25c, prepaid.—Not prepaid, 4 lbs. 40c, peck 65c, bu. \$2.25.

EGYPTIAN PERENNIAL SETS—A hardy variety that may be planted either in spring or fall. They require no attention, spread rapidly, and make the first green onions for the table in spring. Price: Lb. 25c, prepaid.—Not prepaid, 4 lbs. 40c, peck (7 lbs.) 60c, bu. (28 lbs.) \$2.25.

SUMMER TOP SETS—Earliest of all. Planted both for early green onions and for late eating stock. Price: Lb. 35c, prepaid.—Not prepaid, 4 lbs. \$1.00.

YELLOW MULTIPLIERS—Price: Lb. 35c, prepaid.—Not prepaid, 4 lbs. 85c.

WHITE BOTTOM SETS—Price: Lb. 25c, prepaid.—Not prepaid, 4 lbs. 45c, peck 70c, bu. \$2.50.

RED OR YELLOW BOTTOM SETS—The onions commonly planted in the home garden, for early green onions, also for later use. Price, your choice of either variety: Lb. 20c prepaid.—Not prepaid, 4 lbs. 35c, peck 55c, bu. \$2.00.

GARLIC—Used for sausage, soups, salads, etc. ½ lb. 20c, lb. 35c, prepaid.—Not prepaid, 5 lbs. \$1.40.

NORTHERN GROWN PEAS

Sow 1 pound for 50 feet of drill; 2 to 3 bushels per acre.

In order to have luscious, tender peas throughout the summer, even after hot weather sets in, plant all your peas early in spring, at the same time, using extra early, main crop, and late sorts. Peas require cool, moist weather and early planting, to develop their roots and set the crop. They may be planted as soon as the ground can be worked, from April 1 to May 15, in this latitude. By planting such varieties as Extra Early Six Weeks, Little Marvel, Thomas Laxton, Laxton's Progress, Potlatch and Quite Content, you can pick peas from your garden almost until fall.

CULTURE—Garden Peas do best in light, rich soil, and are quite hardy, requiring fairly cool weather. The extra early varieties can be sown just as soon as the ground can be worked, early in April here. Sow in rows 24 to 26 inches apart, covering the seed about 2 inches deep. The tall varieties should be supported with brush, or twine and light stakes.

INOCULATE GARDEN PEAS, BEANS, SWEET PEAS

They grow bigger and better when "inoculated" with Humogerm. It contains billions of germs which help draw nitrogen plant food from the air. Recommended by all authorities. 1-bu. size (60 lbs.) 35c, 2-bu. size 50c, 5-bu. size \$1.00, 20-bu. size \$4.00, prepaid. See page 60. Ask for special folder.

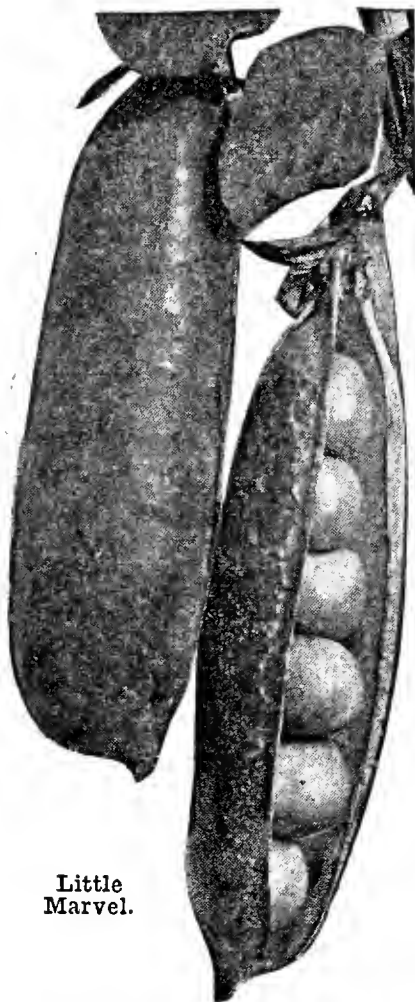


A GOOD GARDEN WILL SAVE 20% OF YOUR FOOD COST.

F. S. & N. CO'S ALL SEASON COLLECTION OF PEAS

510. FRESH PEAS ALL SUMMER—We have selected varieties which will mature in succession, and furnish a continuous supply of delicious peas. We promise they will more than please you.

Our	{	EXTRA EARLY SIX WEEKS —Best early pea.....	1 pkt. of each variety 15c.
Prepaid		LITTLE MARVEL —Midseason. Always delicious.....	1/2 lb. each 45c.
Offer		POTLATCH —Late. Never disappoint.....	1 lb. each 75c.



Little Marvel.

The above is perhaps our most popular vegetable collection. Everybody likes fresh garden peas and you may have them as well as not—throughout the season by planting the best quality varieties to mature in succession.

EARLY WRINKLED PEAS

459. GRADUS OR PROSPERITY—Height 3 to 3 1/2 feet. An extra early wrinkled pea with immense pods, as large as those of the Telephone, which contain peas of superb quality, luscious and sweet. The vine is similar in appearance to the Telephone, the pods are well shaped, handsome; peas are large and of beautiful green color, which they retain after cooking. On account of its earliness, large sized pod and splendid quality this is fine for market. 2 1/4-oz. pkt. 8c, 1/2 lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. at 15c per lb.

460. THOMAS LAXTON—Height 3 to 3 1/2 feet. An early wrinkled variety of great merit. Vines are strong, vigorous and dark green in color. Pods are large, long, with square ends, and of about the same size and quality as the late variety, the Champion of England. The peas are very large, fine colored and unsurpassed in quality. It is one of the most popular sorts for the market and home garden. 2 1/4-oz. pkt. 8c, 1/2 lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. and more at 16c per lb.

461. LAXTON'S PROGRESS—A new extra early dwarf pea from England—conceded to be the earliest and best quality of the large podded dwarf sorts. Also a heavy yielder, and an improvement on the well known Laxtonian. As a market variety it is outstanding. The vines grow 15 to 18 inches high—pods 4 to 4 1/2 inches long and of deep green color. Large dark green peas of wonderful quality and flavor. Pkt. 8c, 1/2 lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. at 16c per lb.

470. GIANT LAXTONIAN—The Dwarf Gradus Pea. Height about 16 inches. This is the largest podded early dwarf pea in existence, requiring no support. Pods are as large as Telephone, well filled with eight to ten large peas of delicious flavor. It is a true Marrowfat Pea, having the richness and unsurpassed quality of the best late Marrowfat varieties. The vines are vigorous, producing heavy crops. 2 1/4-oz. pkt. 8c, 1/2 lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. and more at 16c per lb.

471. LITTLE MARVEL—Grows about 18 inches in height. The vines grow very even and uniform, and produce good sized pods very abundantly, frequently in pairs. Pods are very well filled with delicious deep green peas and the crop is ready in 60 days. An extra quality pea for the home table. 2 1/4-oz. pkt. 8c, 1/2 lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. at 15c per lb.

472. AMERICAN WONDER—Height 12 to 15 inches. An old variety, well known and highly prized for its flavor and quality, which are of the very best. Of dwarf, robust habit and bearing in abundance large, well filled pods. 2 1/4-oz. pkt. 8c, 1/2 lb. 15c, 1 lb. 25c, 2 lbs. 45c, prepaid.—Not prepaid, 5 lbs. 80c, 15 lbs. and more at 14c per lb.

473. NOTT'S EXCELSIOR—Almost as early as the smooth early peas, but of much better quality. Vines grow 15 inches high, bearing pods 3 inches long, each pod containing 5 to 7 tender, delicious peas. Vines are vigorous and enormously prolific. A fine sort for the home garden. 2 1/4-oz. pkt. 8c, 1/2 lb. 15c, 1 lb. 25c, 2 lbs. 45c, prepaid.—Not prepaid, 5 lbs. 80c, 15 lbs. and more at 14c per lb.

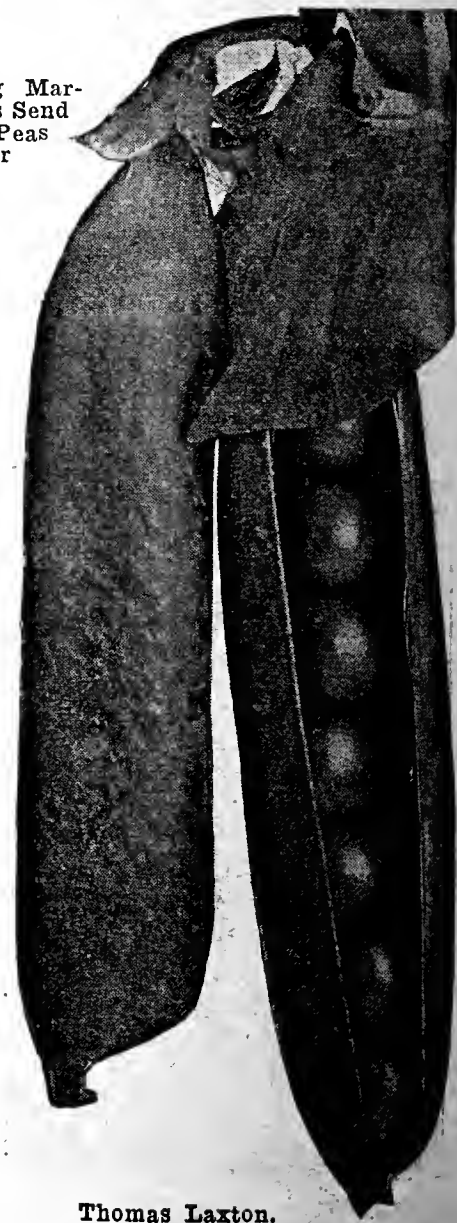


Laxton's Progress.

EXTRA EARLY PEAS

448. EXTRA EARLY SIX WEEKS—This is a semi-wrinkled variety, a rapid grower and heavy yielder, 15 to 18 inches tall. Pods are of medium size, and well filled with fine quality peas of delicious flavor. The seed has been reselected from Carters Eight Weeks, and produces fine table peas 10 days to 2 weeks earlier. Plant Early Six Weeks Peas, and have the earliest peas ever known. 2 1/4-oz. pkt. 8c, 1/2 lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. and more at 15c per lb. See first inside cover.

Many Leading Market Gardeners Send Here for Peas and Other Quality Seeds.



Thomas Laxton.

Market Gardeners Ask for Special Price List.

OUTSTANDING PEA VARIETIES

474. PREMIUM GEM—Improved Little Gem. Height 15 to 18 inches. A trifle later than American Wonder; it is, however, a better yielder. Pods are 2½ to 3 inches long and are well filled with a fine quality of wrinkled peas. 1½ oz. pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 45c, prepaid.—Not prepaid, 5 lbs. 80c, 15 lbs. and more at 14c per lb.

480. POTLATCH OR BIG DINNER—This splendid variety ripens as early as Premium Gem, but the pods are much larger, usually borne in pairs and in the greatest profusion. Strong, vigorous vines of even growth, 18 to 20 inches in height, with luxuriant dark foliage, bearing pods 3½ to 4 inches in length, broad and pointed at the ends. No variety known will produce more pods, and no pods could possibly shell out better. Every gardener will find "Potlatch" to be a profitable crop. 2¼ oz. pkt. 8c, ½ lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. and more at 16c per lb.

484. EVERBEARING—Height 2½ feet. Vine stout, bearing an abundance of broad pods. If these are picked as they mature, and the season and soil are favorable, the plant will throw out new branches, bearing pods which will mature in succession, thus prolonging the season. The peas are very large, tender and of superior flavor. 2¼ oz. pkt. 8c, ½ lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. and more at 15c per lb.

486. DWARF TELEPHONE OR DAISY—Height 18 inches. Excellent second early dwarf pea with immense pods and peas. A magnificent sort. The self-supporting stout plants are loaded with large, bright green pods, which are always well filled, each pod containing from 8 to 10 peas of bright green color, tender and of delicious flavor. 2¼ oz. pkt. 8c, ½ lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 85c, 15 lbs. and more at 15c per lb.

492. DWARF SUGAR—Early and productive. Pods broad, flat and crooked. Cooked when young the same as string beans without shelling; sweet and tender. Pkt. 8c, ½ lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. and more at 16c per lb.

TALL PEAS FOR MAIN CROP

501. QUITE CONTENT—The favorite variety of most of our customers. We receive more compliments on our Quite Content peas than on all other sorts. The pods are larger and longer than those of any other pea in cultivation, often growing 6 to 7 inches long and containing 10 to 12 peas of the finest quality and flavor. This is a late variety with dark green foliage; the pods, also dark green, hang mostly in pairs and are borne in great profusion. It is a pea with which everyone will be "quite content"—on account of its great productiveness and high market value, and its wonderfully fine flavor. 2¼ oz. pkt. 8c, ½ lb. 20c, 1 lb. 35c, 2 lbs. 60c, prepaid.—Not prepaid, 5 lbs. \$1.00, 15 lbs. and more at 18c per lb.

503. ALDERMAN—(Also called Improved Telephone and Admiral Dewey). Height 4 to 5 feet. The vines are remarkably healthy and vigorous, producing an abundance of pods of immense size, quite often measuring 6 inches in length, which are well filled with sweet and tender peas of the largest size. Foliage, vines and pods are of a rich dark green color. As a heavy cropper it beats all late varieties. 2¼ oz. pkt. 8c, ½ lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. and more at 16c per lb.


505. TELEPHONE—Height 4 feet. On account of its beautiful large pods and high quality, one of the leading peas with market gardeners. Vines are vigorous and produce an abundance of very large pods, filled with immense peas, which are tender, sweet and of excellent flavor. 2¼ oz. pkt. 8c, ½ lb. 18c, 1 lb. 30c, 2 lbs. 55c, prepaid.—Not prepaid, 5 lbs. 95c, 15 lbs. and more at 16c per lb.

506. CHAMPION OF ENGLAND—Height 5 feet. Although one of the oldest of the tall growing late peas, it is one of the richest and best flavored varieties. The vigorous vines produce large pods of luscious peas in the greatest abundance. 1½ oz. pkt. 5c, ½ lb. 15c, 1 lb. 25c, 2 lbs. 45c, prepaid.—Not prepaid, 5 lbs. 80c, 15 lbs. and more at 14c per lb.

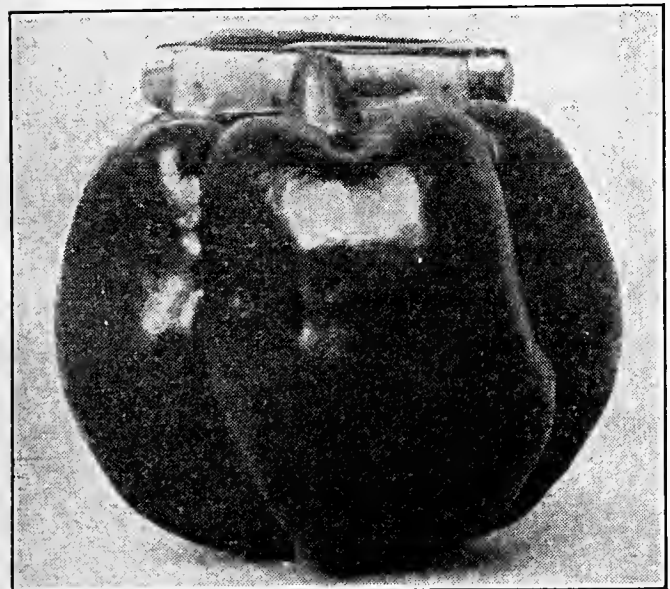
FIELD PEAS

494. CANADA YELLOW—The dry peas are of good size and excellent for cooking. Succeeds well most anywhere and is very prolific. Pkt. 5c, ½ lb. 15c, 1 lb. 25c, prepaid.—Not prepaid, 5 lbs. 75c.

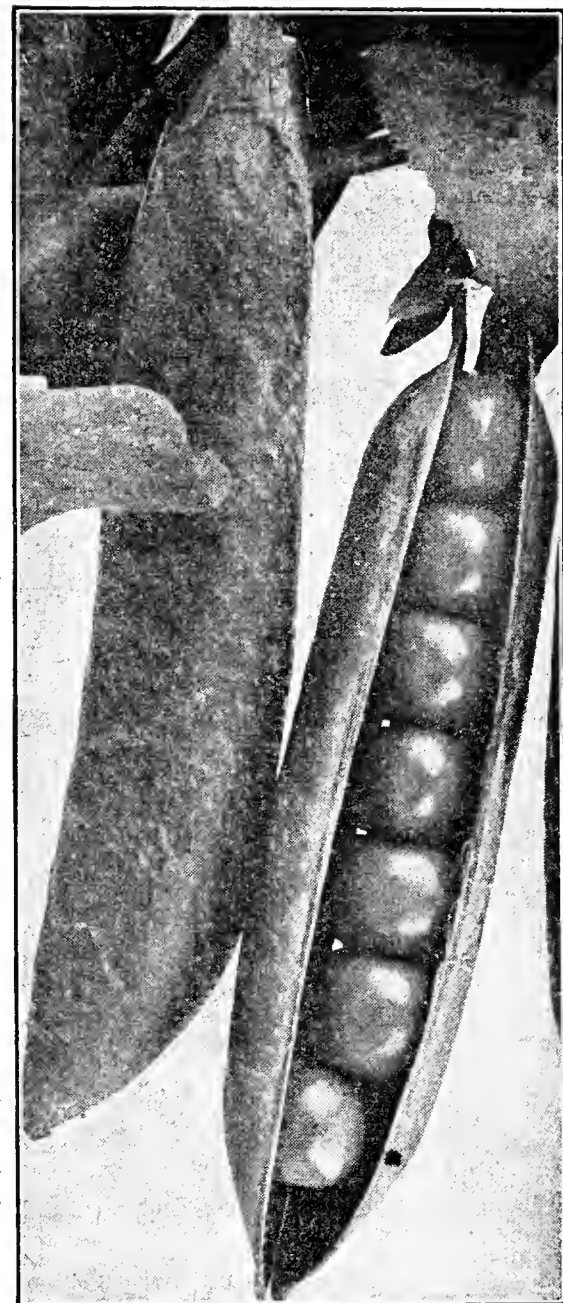
For prices on larger quantities see Farm Seed Department and Blue Figure Price List.



Humogerm promotes quick vigorous growth and assures big yields. See page 70.



California Wonder.



Potlatch, for main crops.

PEPPER

One ounce of seed for 1,000 to 1,500 plants. ¼ lb. to transplant one acre.

Sow seed in flats or in the hotbed in March, and transplant seedlings, when 3 or 4 inches high, to other flats or to paper pots. About the last of May, transplant to the garden, in rich, well prepared soil, setting the plants in rows 3 feet apart, 20 inches apart in the rows.

433. RED CAYENNE—Long, slender pods which taper to a point. Bright red when ripe, and very pungent. The best hot pepper for seasoning, pickles and pepper sauce. Pkt. 8c, oz. 30c, ¼ lb. 95c, 1 lb. \$3.50, prepaid.

434. HARRIS' EARLY GIANT—Earlier than any other large sort. Plants are vigorous and very productive. Fruit is 5 inches long and 3½ inches thick; color is deep green turning to red when ripe. The flesh is thick, mild flavored and very sweet. One of the best peppers for the home garden and the market gardener. Pkt. 8c, oz. 45c, ¼ lb. \$1.50, 1 lb. \$5.75, prepaid.

435. CHINESE GIANT—This desirable variety is undoubtedly the largest sweet pepper ever offered. The flesh is thick, very mild and remarkably sweet. The plants are of strong, stocky growth, of bushy, erect habit, growing 18 inches to 2 feet in height, setting 3 to 4 extra large fruits at the base, quite early in the season, which ripen while a second crop is setting on the branches. The fruit is quite square in appearance. Pkt. 8c, oz. 50c, ¼ lb. \$1.60, 1 lb. \$6.00, prepaid.

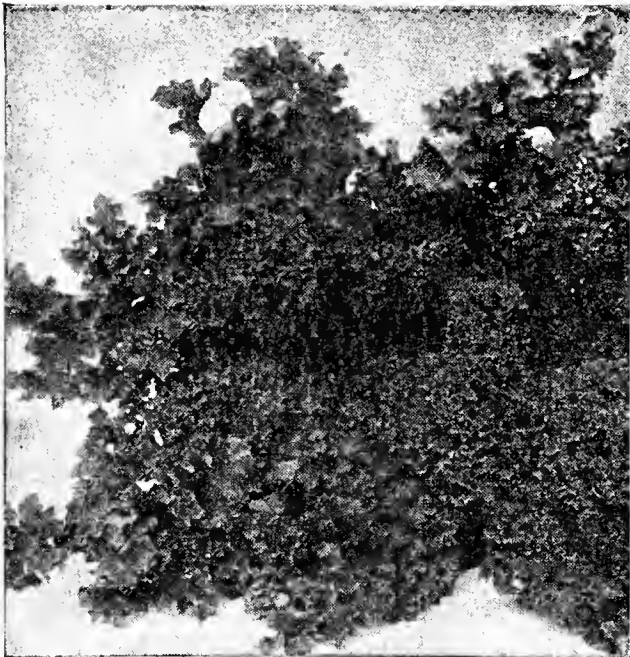
436. CALIFORNIA WONDER—A leading new variety, greatly preferred by market gardeners and one of the largest peppers grown. Flesh is exceptionally thick—very mild and sweet. Fruits resemble Chinese Giant in size and shape but are smoother. When ripe, color is brilliant scarlet. Size up to 4 inches in diameter and 4½ inches long. Will stand handling and shipping exceptionally well. Pkt. 10c, oz. 45c, ¼ lb. \$1.50, 1 lb. \$5.75, prepaid.

437. BULL NOSE OR IMPROVED LARGE BELL—The sweet, scarlet fruits are 3 inches in length and 2 inches in diameter, with thick mild flesh; of excellent quality for use in salads and pickles. A most popular and desirable sort; one of the best to grow for the market. Pkt. 8c, oz. 30c, ¼ lb. 95c, 1 lb. \$3.50, prepaid.

441. PIMIENTO OR PERFECTION—This is the mildest and sweetest pepper grown, and very prolific, with very thick mild flesh. It is of medium size, rather elongated, and tapering to a sharp point. When ripe, the peppers are brilliant scarlet and very attractive. Pimiento is a late maturing variety, and should be started indoors, here in the North. Pkt. 5c, oz. 25c, ¼ lb. 85c, 1 lb. \$3.00, prepaid.

442. RUBY KING—Handsome, extra large, scarlet fruits. Flesh thick, sweet and mild. A favorite sort. Pkt. 8c, oz. 30c, ¼ lb. 95c, 1 lb. \$3.50, prepaid.

For PEPPER PLANTS, see page 26.



Moss Curled Parsley.

GARDEN SUGGESTIONS

Make at least two plantings of Beans, Peas, Sweet Corn, in order to prolong the season. Plan for enough for canning, also.

Sow plenty of Beets, Carrots, Onions, Celery, and Rutabagas, for winter storage.

You can use some of the garden space twice—Radishes, Early Lettuce, Early Peas, etc., may be followed by Celery Cabbage, Tomatoes, Cabbage, Turnips, or another crop of Radishes and Lettuce may be grown.

PEANUTS

CULTURE—Peanuts are a leguminous crop, the same as beans and peas, and valuable as fertilizing and forage crops. They require about the same care, and the planting season is the same as for corn. The shells must be removed before planting. Pods are borne beneath the ground. Peanuts are an interesting crop to grow, especially for children's gardens.

514. EARLY SPANISH—The earliest variety, and best for the North. Plants are upright and compact, with small pods and nuts of fine flavor. Large pkt. 8c, lb. 35c, prepaid.—Not prepaid, 5 lbs. \$1.10.

515. LARGE VIRGINIA—The main crop peanut, and the most extensively grown. Plants are erect, and of vigorous, rapid growth, with very large pods and nuts. An excellent variety for dry, sandy soil. Large pkt. 8c, lb. 35c, prepaid.—Not prepaid, 5 lbs. for \$1.10.



Large Virginia Peanuts.

PARSLEY

One ounce will sow 150 feet of drill.

CULTURE—Parsley is indispensable for flavoring and for garnishing. The seed germinates slowly, in 2 or 3 weeks and, therefore should be soaked in warm water for a few hours before planting. Sow early in spring, ½ inch deep, in rich, mellow soil, and when plants are of good size, thin to stand 8 inches apart in the rows. In the fall, a few plants may be set into pots, and taken indoors.

430. CHAMPION MOSS CURLED—A compact growing, finely cut and densely curled variety of a deep green color. Owing to its fine color and handsome foliage, it is one of the most popular sorts. Special gardeners' strain. Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. \$1.00, prepaid.

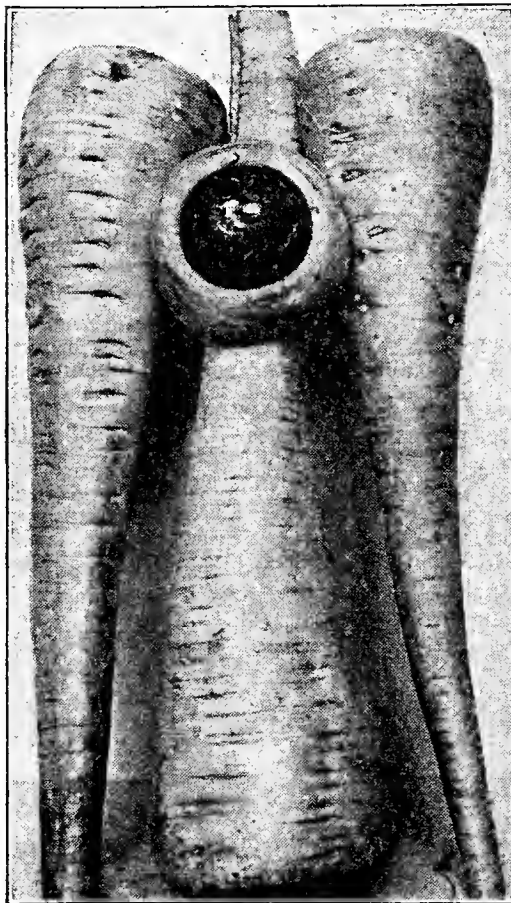
431. TURNIP-ROOTED OR HAMBURG—The root is the edible portion of this variety and resembles a small parsnip, both in color and shape. Flesh white, a little dry, having a flavor similar to celeriac. Very hardy and should be cultivated like parsnip. Foliage same as Plain Parsley. Pkt. 10c, oz. 15c, ¼ lb. 40c, lb. \$1.20, prepaid.

F. S. & N. Co.

Elkhorn, Wis., Jan. 20, 1932.

Let me tell you what I did the past season with your wonderful seed. At our local County Fair last fall, which is next to the State Fair for size, etc., I won premiums on the following: 1st prize on Golden Ponderosa Tomato; 1st prize on White Vienna Kohlrabi; 2nd prize on Red Cored Chantenay Carrots; 2nd prize on Purple Top Rutabagas. Kindly send new catalog as soon as convenient as I am anxious to plant early.

Mrs. Ivan F. Lean, R 2.



Parsnip, Long Smooth.

PARSNIP

1 oz. for 200 feet of drill. 5-6 lbs. for an acre.

The parsnip is one of our most valuable root vegetables, because of its rich sweet flavor and high food value. Frost improves the flavor, and parsnips can be left in the ground all winter, to be harvested in spring when fresh vegetables are scarcest.

Parsnips do best in rich deep soil, but fresh manure should not be used. Seed germinates slowly, and may be sown early in drills. Thin the plants to stand 4 or 5 inches apart.

426. LONG SMOOTH OR HOLLOW CROWN—A great cropper; tender, sugary and considered the best for general cultivation. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 90c, prepaid.

427. GUERNSEY—The roots do not grow as long as those of the Hollow Crown, but are thicker and more easily gathered. They are very smooth and have fine grained flesh of excellent quality. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 90c, prepaid.

NON-POISONOUS INSECTICIDES

Great progress has been made in controlling insects without arsenical poison. Absolute safety is assured in using vegetables or fruits that have been sprayed with "Kalo" products.

"Kalite" is used as a dust for bugs and beetles, while "Kalo" Spray and "Kaloil" function as sprays to control Aphids (plant lice), Thrips, White Flies, that suck the life out of your plants. See page 73 for full information and prices.

MINNESOTA GROWN PUMPKIN

An ounce will plant 30 hills, 4 to 5 lbs. per acre.

565. SUGAR PIE—This is a small, sweet pumpkin, very fine grained, and most deliciously sweet flavored. It is a splendid keeper all through the winter. The fruits average about 10 inches in diameter, are of a round, flattened shape, deep orange-yellow color, and very attractive. Succeed in any location. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c, prepaid.—Not prepaid, 5 lbs. \$2.50.

572. CONNECTICUT FIELD—An immensely productive, large orange colored field pumpkin, usually grown for stock feeding, but also making good pies. This variety is also known as the Large Cheese Pumpkin. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 50c, prepaid.—Not prepaid, 5 lbs. \$2.00, 10 lbs. \$3.75.

573. KENTUCKY FIELD—Of large size, about 2 feet in diameter, round, flattened, hardy and productive. A fine sort for family and market use. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 50c, prepaid.—Not prepaid, 5 lbs. \$2.00, 10 lbs. \$3.75.

574. MAMMOTH KING OR JUMBO—Form like that of an immense nutmeg muskmelon with depressed ends slightly ribbed; the fruits sometimes grow 3 feet or more in diameter and weigh over 100 lbs. Have salmon colored skin and bright yellow flesh, fair quality; good winter food for stock. Pkt. 8c, oz. 20c, ¼ lb. 50c, lb. \$1.75, prepaid.

576. PRIZE COLLECTION MIXTURE—A mixture of the best varieties described above, all shapes and sizes, large and small. This collection is sure to please and give surprising results. Just the thing for growing varieties to exhibit at county or state fairs. There is bound to be a prize winner in the collection. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 50c, prepaid.—Not prepaid, 5 lbs. \$2.00.



Sugar Pie Pumpkin.

MINNESOTA GROWN SEED POTATOES

WHITE GOLD—THE EARLIEST POTATO GROWN

(See Back Cover.)

Ten days to two weeks earlier to market frequently means the difference between a decent profit and a possible loss. Many growers did not get production cost out of their Potato crops the past season, while White Gold Potato growers in hundreds of letters tell of their wonderful success and fine profits. The chief reason was because White Gold Potatoes were ready two weeks earlier than Cobblers, Triumphs or Early Ohios. (See page 27 for letters from customers.)

Although heat and drought again took its toll in many sections, large yields of fine smooth Potatoes that always found a ready market were reported in practically all cases and our seed supply was again exhausted before all orders could be filled. This year we have doubled our acreage, and hope now to supply all of our customers, and at prices anyone can afford to pay.

It is usually wise to follow a big crop year by planting the same crops again. There is seldom an overproduction two years in succession as the acreage is usually curtailed. So here is your opportunity, while seed prices are low, to profit the coming spring by growing this outstanding variety, destined to become the most popular early Potato of the future.

White Gold Potatoes were developed from a Potato seedling, by George Kremer of Itasca County, Minnesota. For six years the seedlings were carefully selected and increased before the new Potato was introduced. It has the size and shape of the Green Mountain, though the eyes are shallow and it is of slightly netted appearance. The yields compare favorably with the late varieties such as Carman and Rural New Yorkers. The outstanding feature, however, is its earliness, for here is a White Potato of good size and appearance, a big yielder, and ten days earlier than Irish Cobbler, Early Ohio or Bliss Triumph. Herein lies the real advantage for market growers and the possibilities of better profits.

Our seed supply was grown from the originator's own seed stock, which we secured for exclusive distribution. Don't delay placing your order, for many were disappointed the past two seasons when we were sold out. Send only half your remittance when placing your order, if more convenient. Balance may be paid when shipment is made. Ten lbs. 70c, postpaid to 3rd zone.—Not prepaid, 1/4 bu. 45c, 1/2 bu. 75c, 1 bu. \$1.35. See Blue Figure Price List for quotations on larger quantities.



—WHITE GOLD—
The Money-Maker for Early Market.

EXTRA EARLY BLISS TRIUMPH

Bliss Triumph is at least a week or ten days earlier than the Early Ohio. The tubers are of handsome appearance, being almost round, with slightly depressed eyes, mostly at the seed end. They run very uniform as to size and shape. The skin is light to solid red. Flesh is pure white, both when raw and cooked. Its superior table qualities make this potato a favorite for the early market. See Blue Figure Price List.

RURAL NEW YORKER

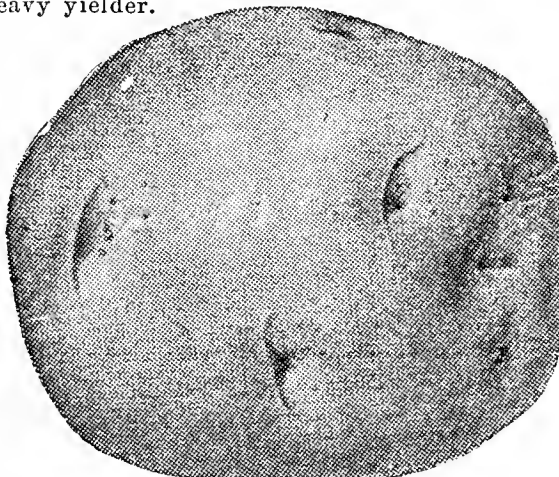
This is the best known, and the standard late market potato. The tubers are of large size, nearly round to oval, considerably flattened, with stem and seed ends roundish. The skin is smooth and white, with broad shallow eyes at the seed end. The foliage is deep green, vigorous and heavy, therefore unusually scab and insect resistant. See Blue Figure Price List.

RUSSET RURAL

This Potato has all the characteristics of the regular Rural New Yorker, and in addition a finely netted or russet skin. It outyields most all late varieties—is disease-free and a wonderful cooker and baker. We consider it equal to the finest Idaho Russets. See Blue Figure Price List.

EARLY IRISH COBBLER

Another extra fine early potato, and one that is not easily affected by blight and insects. The tubers are nearly round, with prominent ridge at ends, causing uneven surface, and slightly flattened, rather blocky in shape. The skin is white, well netted, with eyes of medium depth and number. It is a fine flavored potato and a heavy yielder.



Irish Cobbler.

EARLY OHIO

This old favorite is a heavy yielder, producing 150 to 250 bu. per acre, tubers being of even size, medium to large, oval in shape, very smooth, with shallow eyes. Early Ohios always bring a high market price, and though very early, they keep well. The flesh is white, firm, fine grained, and of excellent flavor. The cooking and baking qualities are unsurpassed.

GREEN MOUNTAIN CERTIFIED

One of the best main crop Potatoes—a late white variety producing remarkable yields and especially adapted for the Northwest.

Owing to their large size, there are very few unmarketable Potatoes to be found in a field. Green Mountain is a vigorous grower, a good keeper and outstanding as a baking Potato.

CARMAN NO. 1

This variety is quite similar to the Green Mountain—good size, oblong shape—fine keeper and always of the best table quality. It is especially liked in many sections where it is known to give higher yields than some of the other main crop varieties. Stocks are of very fine quality. See Prices on Blue Figure List.

No freight shipments until April 15th. Earlier shipments are sent express.

Use Semesan-Bel for Treating Potatoes. See Page 72.

THE NEW KATAHDIN POTATO

A new variety originated by the U. S. Department of Agriculture and promising to become the outstanding Late Potato for market or storage. It was originated in Maine, by double crossing unnamed seedlings of Rural New Yorker No. 2 and Aroostook Wonder parentage. It was bred for disease resistance, quality and yield. During the eight years it was under observation, it has been entirely free from mild mosaic. In yields it has constantly surpassed Rural New Yorker or Green Mountain. The tubers are short, elliptical to roundish, and have very shallow eyes. Emphasis is laid on the high yield and small percentage of culls. It is well adapted for growing on muck and peat soils, though not so well to poor soils or where a summer drought is likely to occur. The vines are vigorous and light green in color. They mature late, though the tubers set fairly early, which is an advantage in a late season. The secretary of the Iowa Vegetable Growers Assn., in viewing tests of the Katahdin Potatoes in Iowa, remarked that this new Potato may replace the Rurals as it is smoother and peels with less tare. In shape, it is nearly a ball.

Uncle Sam spent about \$250,000.00 in developing it and Extension Horticulturalist Fitch, of the Iowa station, enthusiastically suggests it should pay the nation 1,000 times that in larger yields to farmers, less expense to dealers and handlers.

Growers everywhere are anxious to try the new Katahdin, though the seed supply is extremely limited. To enable as many as possible of our customers to try this new Potato, we offer it in small quantities only, and subject to being unsold.

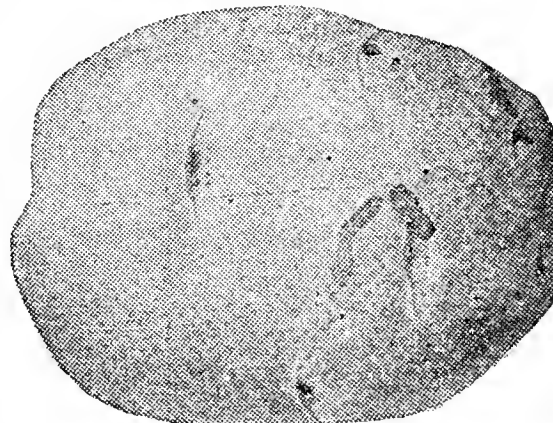
Price: 10 lbs. \$1.00, prepaid to 3rd zone.—Not prepaid, 1/4 bu. \$1.25, 1/2 bu. \$2.00.

FARIBAULT MAMMOTH PRIZE

The largest choice white potato in cultivation. It is of strong, vigorous growth, well suited to most soils and climatic conditions, and an enormous yielder. It is practically scab-proof, and but little affected by the ravages of potato bugs. It matures with Carman, and is one of the most profitable for the market. See Blue Figure Price List.

HYBRIDIZED POTATO SEED

Many of the choicest varieties have been originated by amateurs from Potato Seed. They have equal chance with potato specialists as nature does the work. White Gold potatoes originated from seed and years of seedling selection was carried on by Mr. Kremer as a hobby. Very interesting. Directions on every packet. Pkt. 10c.



Early Ohio.

"Girasol"—the lazy man's spud—something you do not want to miss. See page 27.

For list of prize winners in our 1932 White Gold Potato Growing Contest see page 27.

RADISHES

One ounce will sow 100 feet of drill, 9 to 10 pounds per acre.

CULTURE—For first crop sow as early in the spring as the ground can be worked, and every two weeks throughout the season, for succession. A warm, sandy loam is the best. Sow in drills 10 to 12 inches apart. Take them up before severe freezing and store in sand in the cellar or in a pit, where they will keep tender and crisp all winter.

525. EARLY SCARLET TURNIP—An extremely early strain of the well known Early Scarlet Turnip, that is ready for the table in 20 days. Its bright color, earliness and crisp, tender white flesh make it a leader, both for market and home garden use. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, 2 lbs. \$1.40, prepaid.

526. EARLY SCARLET TURNIP WHITE TIP—The radish is a bright scarlet with a white tip, and a beautiful shape; flesh white, crisp and finely flavored. We offer a special strain which has proven of exceptional value to market gardeners. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, 2 lbs. \$1.40, prepaid.

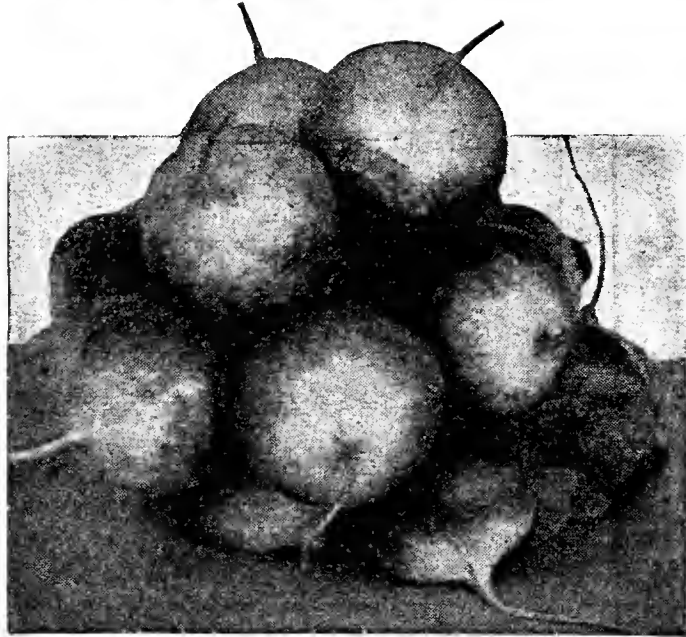
529. SPARKLER—Popular on account of its beautiful color, quick growth and fine qualities. Bright red with a large white tip, covering fully one-third of the roots. This variety has small tops, and is good for forcing in frames, also for growing outdoors. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, 2 lbs. \$1.40, prepaid.

530. EARLY SAXA—The earliest of all forcing radishes. Round, bright scarlet, with the smallest possible tops. Exceptionally crisp and tender and of fine flavor. An excellent early market variety and slow to shoot to seed. Pkt. 8c, oz. 12c, ¼ lb. 25c, lb. 85c, 2 lbs. \$1.60, prepaid.

544. ALL SEASONS OR ROUND SCARLET CHINA—A most satisfactory radish, especially for late planting, round, bright scarlet in color and of exceptional flavor. Always crisp and tender, never gets woody during a droughty season. It is without doubt just as the name implies—the best All Season Radish in cultivation. Pkt. 8c, oz. 12c, ¼ lb. 25c, lb. 85c, 2 lbs. \$1.60, prepaid.

546. ICICLE—The finest white radish. Planted in the spring the radishes are ready for use in 20 to 25 days; their long, slender form and pure paper-white skin make them most attractive. The flesh remains crisp and tender until the roots attain a large size. Well adapted for forcing purposes as well as for successive sowing in the open ground. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, 2 lbs. \$1.40, prepaid.

548. FIRECRACKER—Here is a new one—be sure to try it. See color illustrations on back inside cover. A distinct type of long scarlet Radish—vivid scarlet color, shape cylindrical. Slender tap roots. A new introduction—fully as early as Saxa or Scarlet Globe and remaining in prime condition for a much longer time. Pkt. 8c, oz. 15c, ¼ lb. 30c, lb. \$1.00, 2 lbs. \$1.80, prepaid.



Red Sparkler, White Tip.

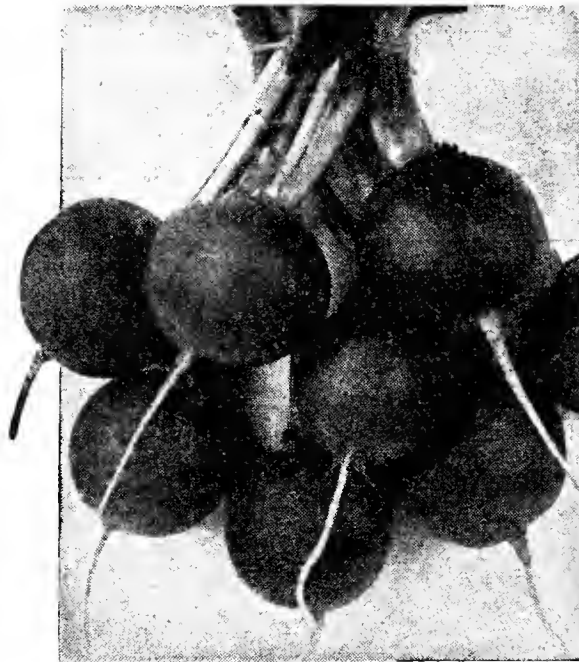
535. IMPROVED EARLY SCARLET GLOBE—The leading variety of radishes for market gardeners; equally as good for forcing as for open garden culture. A very handsome radish of rich, bright scarlet color and oval shape, with very small tops; the flesh is delightfully crisp, juicy and tender. Extra early, fit to be pulled in about three weeks. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, 2 lbs. \$1.40, prepaid.

538. FRENCH BREAKFAST—A quick growing, medium sized radish, oblong in shape; color a beautiful scarlet except near the tip where it is pure white. French Breakfast is ready for the table in 22 days and sells readily on the market. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, 2 lbs. \$1.40, prepaid.

540. CRIMSON GIANT—This radish differs from all other forcing varieties in that its roots attain more than double the size without getting pithy or hollow. It is very early, notwithstanding its size. Color crimson; flesh pure white and of the best quality. Fine for outdoors and forcing. Pkt. 8c, oz. 12c, ¼ lb. 25c, lb. 85c, 2 lbs. \$1.60, prepaid.

542. MIXED RADISHES—This mixture contains early, summer and winter varieties; all kinds, colors and shapes, a large assortment, ready for the table, early, medium and late. You always have some that are just right, sweet, tender and juicy. This mixture is for a small garden, where space is limited and one sowing does for the whole season. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c, 2 lbs. \$1.10, prepaid.

Market gardeners using seeds in larger quantities ask for our Special Wholesale Price List.



Early Saxa.

WINTER RADISHES

Winter radishes should not be sown until late in June. They can be used as soon as they are large enough. They grow considerably larger than spring radishes, but are of mild, tender quality.

For winter use, the radishes should be dug and stored in sand, the same as other root vegetables.

Radishes contain valuable vitamins. Sow round or globe varieties for the first crop. Long types do not grow so fast, and endure more heat.

Wormy radishes cannot be controlled by spraying. Do not sow radishes in the same spot year after year.

555. CALIFORNIA WHITE MAMMOTH—Long, white, of large size. A good keeper; flesh tender and crisp. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c, prepaid.

558. ROSE CHINA—Medium size, large at the bottom, tapering abruptly to a small top; color deep rose. Flesh white, firm, and pungent. Fine keeper. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c, prepaid.

559. LONG BLACK SPANISH—Keeps longest of all winter radishes. Skin black; flesh white, crisp, quite pungent. Grows 10 to 12 inches long and has a diameter of from 2 to 3 inches. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c, prepaid.

560. ROUND BLACK SPANISH—Similar to Long Black, except in shape. Matures a little earlier. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c, prepaid.

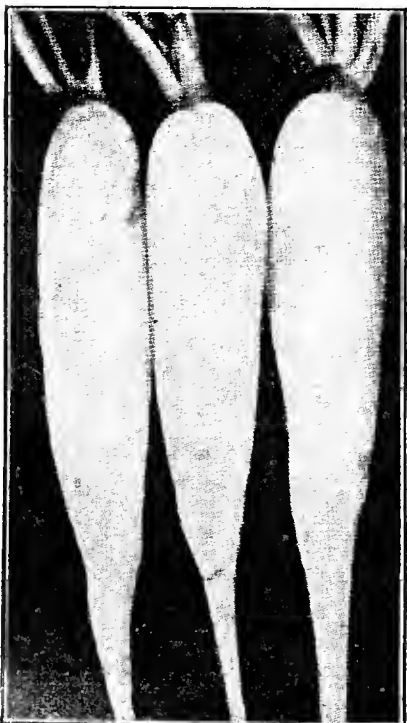
RHUBARB OR PIE PLANT

Rhubarb furnishes the first fruit of the garden in early spring. It is a wonderful spring tonic and very healthful. Easy to grow and greatly prized for sauce and pies.

CULTURE—Succeeds best in deep rich soil. Sow in spring in drills, cover one inch. Thin plants to six inches apart. Transplant in autumn or spring to permanent beds.

581. RED WINE—Larger than the average, a good seller in all markets; of excellent quality. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00, prepaid.

RHUBARB ROOTS—Extra strong two year old, each 15c, 3 for 30c, 12 for \$1.00, prepaid.



White Icicle.



French Breakfast.

SQUASH

One ounce of seed to 50 hills, according to the size of the seed, 3-4 lbs. in hills per acre.

CULTURE—Plant seed in extra fertile soil when danger of frost is past. The vining varieties should be planted in hills 8 or 10 feet apart each way, and the bush varieties from 4 to 5 feet. For running varieties, use 3½ to 4 pounds of seed per acre; bush varieties require 6 pounds of seed per acre.

Tobacco dust will repel the vine borer. See page 73.

SUMMER VARIETIES

595. GIANT YELLOW SUMMER CROOKNECK—This strain is equally as early as the common small-fruited variety, while the squashes grow to much larger size, measuring from 18 inches to 2 feet in length. A great favorite with market gardeners. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.10, prepaid.

596. EARLY WHITE BUSH SCALLOPED—The plants are of true bush growth, producing fruits early in the summer, which are clear, waxy white; excellent for table use. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, prepaid.

WINTER SQUASH

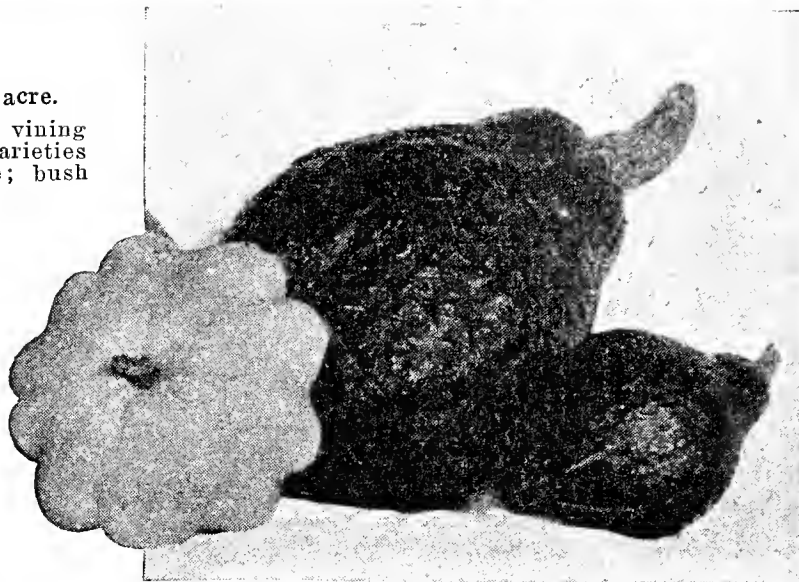
603. DELICIOUS—Of extra fine table quality, no other squash compares with it in richness of flavor. Flesh is bright orange in color, solid, fine grained, dry and sweet. Fruits are somewhat smaller than Hubbard, with a thin, green, moderately hard shell. Undoubtedly the best fall and early winter variety. Pkt. 8c, oz. 15c, ¼ lb. 40c, lb. \$1.40, prepaid.

598. ★CHICAGO WARTED HUBBARD—The ideal winter squash for the home or the market. This strain of the well known Hubbard was produced by careful selection of large, dark green, very warted specimens of the old variety. The vine has a strong, robust growth. The fruits are large, handsomely shaped, with dark green, heavily warted skin and with flesh of bright orange yellow color, fine grained, dry and of sweet, rich flavor. Pkt. 8c, oz. 15c, ¼ lb. 40c, lb. \$1.40, prepaid.

602. MAMMOTH WHALE—This is the "Jumbo" of the squash family and attracts attention wherever grown or exhibited. It is an extra large fruited sort, frequently attaining more than 100 pounds in weight. The skin is dark olive green, with stripes of a lighter tinge. Flesh firm and solid, beautiful orange yellow and of excellent quality. Pkt. 8c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

605. TABLE QUEEN OR DES MOINES—A new dwarf squash, second to none in quality and most popular with the housewife. A prolific squash of delicious flavor and fine cooking quality. The dark green fruits are a nice size to handle and to serve, 6-8 inches long and 4-6 inches in diameter. Each squash is cut in half and serves two people. Table Queen ripens in the fall. Pkt. 8c, oz. 15c, ¼ lb. 40c, lb. \$1.40, prepaid.

SPINACH BEET OR SWISS CHARD. See Page 4.



White Bush—Hubbard—Kitchenette.

599. HUBBARD—The original Hubbard; is similar to the above, but smoother and not quite so large. Pkt. 5c, oz. 12c, ¼ lb. 35c, lb. \$1.25, prepaid.

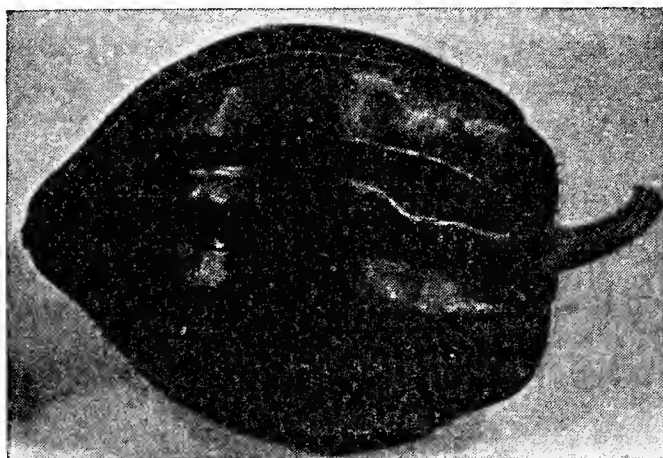


Table Queen or Des Moines.

600. GOLDEN HUBBARD—This is a true Hubbard squash, except in color, which is orange red. The fruits are very uniform in size, weighing from 6 to 8 pounds, and in shape are like the Hubbard. Although in condition for use much earlier, they are wonderfully long keepers. The flesh is a deep orange and uniformly so to the shell; it cooks very dry, is fine grained and well flavored. Pkt. 8c, oz. 15c, ¼ lb. 40c, lb. \$1.40, prepaid.

607. KITCHENETTE—A new Dwarf Hubbard from the Minnesota Experiment Station that combines the better qualities of several varieties. Has the size of the Table Queen, the delightful flavor of the Delicious, keeping qualities and yield of Hubbard. Kitchenette runs 5 to 7 pounds. The quality is splendid—it cooks up mealy and dry, with a delicious nutty flavor. Just the right size for average family use and a favorite with market gardeners. Pkt. 8c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

SPINACH

One ounce for 100 foot row; 12 to 15 lbs. per acre or 30 lbs. broadcast.

CULTURE—Succeeds best on rich, well drained soil. Sow early in spring, one inch deep, in rows 12 to 15 inches apart. For succession sow every two weeks until June. For early spring use sow in August and cover over winter.

584. KING OF DENMARK—A fine new spinach, that is very slow to go to seed, and keeps in good condition for use weeks after other varieties have gone to seed. It is early and makes a quick, low growth. The leaves are of dark green color, very large and succulent, being much crumpled. They hold up well after being cut. Because of its long keeping qualities and fine flavor, this variety will replace other varieties, for home garden and market. Pkt. 8c, ¼ lb. 15c, lb. 50c, prepaid, 5 lbs. \$1.90, not prepaid.

585. PRINCESS JULIANA—A new type of the Long Season spinach, that is very slow to go to seed. It is a vigorous growing variety, with leaves of good size, very dark green, well crumpled and thick. It is a second early variety, with leaves growing close to the ground, and remains in good condition a long time. Pkt. 5c, ¼ lb. 15c, lb. 45c, prepaid, 5 lbs. \$1.75, not prepaid.

586. BLOOMSDALE SAVOY LEAVED—The earliest variety and one of the best to plant in autumn for early spring use. Plants of upright growth, with medium sized, dark green, pointed leaves which are crumpled like Savoy cabbage. Pkt. 5c, ¼ lb. 12c, lb. 40c, prepaid, 5 lbs. \$1.65, not prepaid.

589. NEW ZEALAND (Everlasting Spinach)—An excellent, half hardy variety that is especially valuable for hot weather planting, and for poor soil, where other sorts do not grow. The plants are of quick, vigorous growth, do not run to seed, and withstand drought well. The leaves are tender and of good flavor. If the young shoots and leaves are pinched back, as required for table use, the plants will produce new growth, and one seeding will be sufficient for the entire season. Pkt. 8c, oz. 15c, ¼ lb. 30c, lb. 85c, prepaid.

SALSIFY OR VEGETABLE OYSTER

An ounce of seed will sow 120 feet of drill.

A wholesome and delicious vegetable, with mild oyster-like flavor when boiled. The roots may be cooked with a cream sauce, or sliced and fried and make delicious soup. Sow in deep drills, in light rich soil, very early. The roots are perfectly hardy, and may remain in the ground all winter.

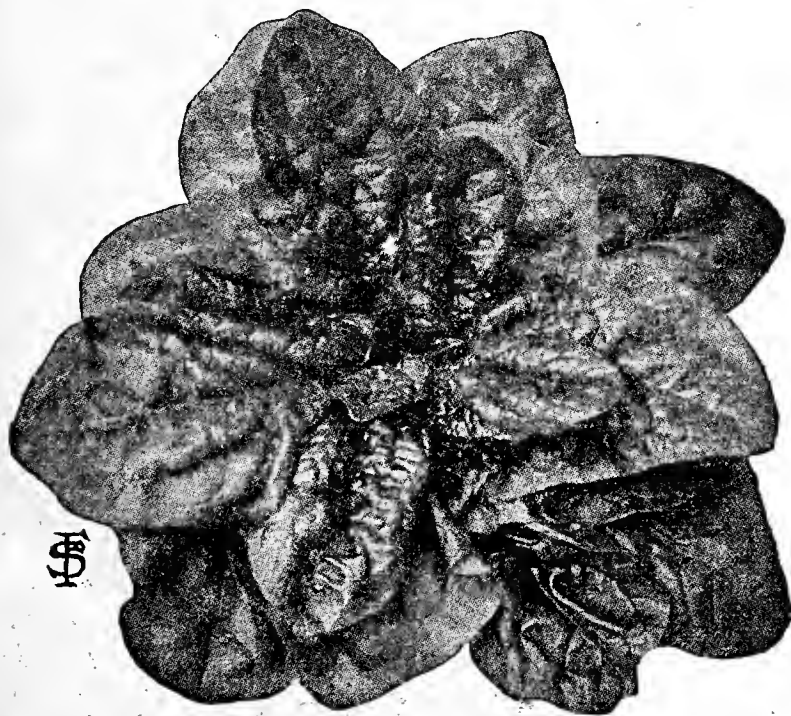
592. MAMMOTH SANDWICH ISLAND—Roots of large size, tender quality and good flavor. Pkt. 8c, oz. 20c, ¼ lb. 60c, lb. \$2.00, prepaid.

TOBACCO

One ounce of seed will produce enough plants for one acre.

519. CONNECTICUT SEED LEAF—One of the most reliable, standard sorts, best adapted to the middle and northern states. Pkt. 8c, ½ oz. 25c, oz. 40c, prepaid.

520. WHITE BURLEY—A profitable, dependable variety, both for the market and the home garden. The broad, porous leaves are much used for wrappers. Pkt. 8c, ½ oz. 25c, oz. 40c, prepaid.



Spinach, King of Denmark.

TOMATOES

1 oz. for 1,500 plants— $\frac{1}{4}$ lb. to transplant one acre.

CULTURE—Tomatoes want well fertilized, light sandy soil, in a sunny open position. For early plants, sow the seed in flats or hotbeds, in March. Cover with soil to a depth of $\frac{3}{4}$ or 1 inch. The seed germinates in 6 to 12 days. When the plants are 3 inches high, transplant them to other flats, or preferably to paper pots, giving each plant 4 inches of room. About the end of May, set the plants out in the garden, 3 feet apart each way. Water well and cultivate often, as long as the vines permit. It is always better to stake the vines and tie them up, pinching off some of the stems as the plants will bear more abundantly.

610. FARIBAULT DWARF CHAMPION—An improved strain of the old Dwarf Champion, of vigorous growth and fine flavor. Because of its compact and upright habit of growth, enabling close planting, this is a great favorite with owners of small gardens. The tomatoes are of good size, like those of Ponderosa, deep purplish crimson, firm and sweet, very meaty and with few seeds. One of the best sorts for canning, ketchup, soup, etc. Plants grow strong, erect and bushy, and bear throughout the season. Pkt. 10c, $\frac{1}{2}$ oz. 20c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, prepaid.

611. SCARLET EXTRA EARLY JUNE—This tomato ripens a whole week earlier than Earliana, and is very productive. Fruits are of large size for an early sort, deep glossy scarlet, and ripen uniformly, the stem end coloring up perfectly. Flavor is delicious, fruit is firm and meaty, with few seeds. A real quality tomato valuable for the home garden and truck gardener. Pkt. 10c, $\frac{1}{2}$ oz. 25c, oz. 40c, $\frac{1}{4}$ lb. \$1.40, prepaid.

612. SPARK'S EARLIANA—Next to our Scarlet Extra Early June, this is the earliest smooth bright red tomato of good size. Plants are compact in growth, with short, close-jointed branches, setting fruit very freely. Tomatoes are solid, fleshy, and excellent for shipping. Pkt. 5c, $\frac{1}{2}$ oz. 15c, oz. 25c, $\frac{1}{4}$ lb. 75c, prepaid.

613. MARGLOBE—This fine, new tomato was bred to resist wilt. It is therefore of special value in all sections where wilt is prevalent. The plant is very vigorous, with a strong, hardy stem and abundant dark green foliage. It is a heavy producer, setting most of the fruit at the center of the plant. Fruits are bright scarlet, quite large, average 7 to 8 ounces in weight and are almost perfectly globe shaped. The flesh is firm, thick and sweet, being very mildly acid, which fact makes it a most desirable tomato for table use and for canning. Pkt. 8c, $\frac{1}{2}$ oz. 20c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, prepaid.

614. BURBANK—A wonderful early variety that is blight resistant and a heavy yielder. Tomatoes are bright crimson, heavy and firm, medium to large in size, and very smooth. The skin is thick and peels freely from the flesh without scalding. There are no open cavities, and the seeds are few and small. The flesh is thick and solid, almost like Beefsteak, and of fine, mild flavor. As a salad tomato, for eating raw, and for the market, Burbank has few equals. Pkt. 8c, $\frac{1}{2}$ oz. 20c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$2.75, prepaid.

Leaf spots or downy mildew on tomato plants may be controlled with Bordeaux mixture or the new non-arsenical product, "Kaloil," described on page 73.



New Oxheart.

615. NEW BREAK O'DAY—A new extra early disease-resistant tomato. Bred by the U. S. Dept. of Agriculture. It is a cross between Marglobe and Marviana, the aristocrats of the tomato family. As a result, Break O'Day is earlier than Bonny Best—is disease-resistant—a true globe-shaped tomato and a variety every market gardener or home gardener will want. The color is scarlet—matures in 120 to 130 days. Seed supply limited. Pkt. 10c, $\frac{1}{4}$ oz. 20c, $\frac{1}{2}$ oz. 35c, 1 oz. 50c, $\frac{1}{4}$ lb. \$1.50, prepaid.

616. NEW OXHEART—A novelty of real merit. In shape, it's different from any other Tomato—of great size, very thick flesh and almost seedless. The fruit is smooth, pink in color and its inch thick flesh makes it very desirable for slicing or canning. Oxheart is a heavy yielder also, and every home garden should have at least a few of these unusual tomatoes. Pkt. 10c, $\frac{1}{4}$ oz. 30c, $\frac{1}{2}$ oz. 45c, 1 oz. 75c, $\frac{1}{4}$ lb. \$2.50, prepaid.

Tomatoes are the richest of all vegetables in vitamins—they rival oranges in health-giving properties—and retain all vitamins after cooking.

A good garden will save you 20% of your food cost.

Tomato Plants on Page 26.



Pritchard's Scarlet Topper.

The Newest Introduction.

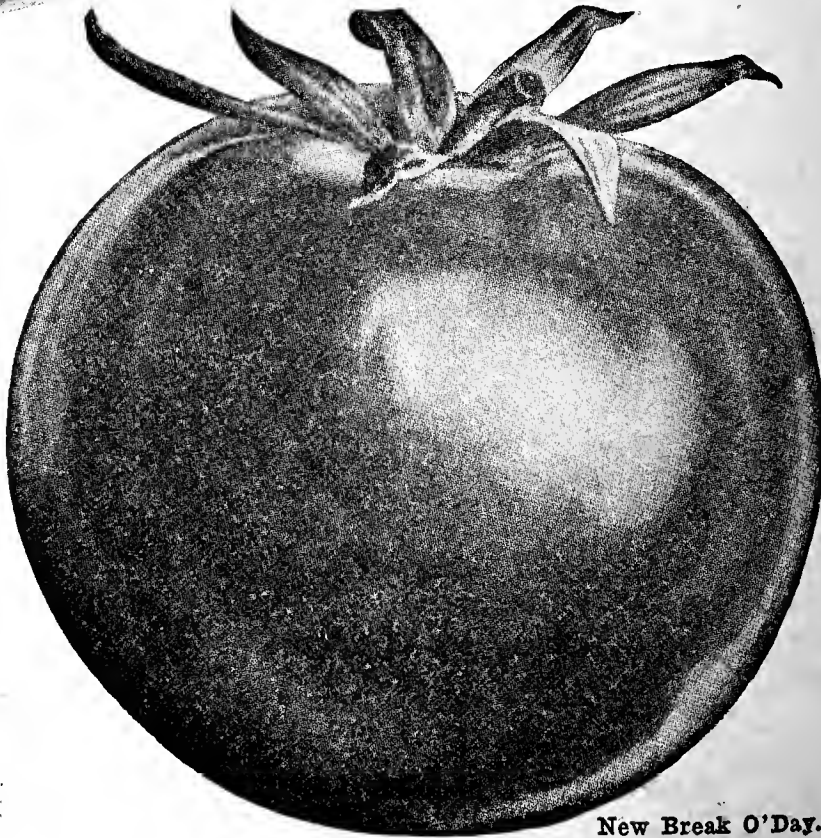
617. PRITCHARD'S SCARLET TOPPER—The Newest in Early Tomatoes. The last achievement of the late Dr. Pritchard of the U. S. Department of Agriculture who also originated Marglobe and Break O'Day.

The fruits are of bright deep scarlet color, without any yellow tint—deep globe shaped, extremely solid and with but few seeds. A tremendous yielder, ripening in 120 to 130 days. The vines produce vigorous growth. Scarlet Topper is a fine shipper and extremely valuable to market gardeners. We consider it the most valuable new introduction of the present time. Pkt. 15c, $\frac{1}{2}$ oz. 45c, oz. 75c, $\frac{1}{4}$ lb. \$2.50, lb. \$7.75, postpaid.

626. F. S. & N. CO'S STONE—More largely grown than any other variety. Very popular with canners and market gardeners everywhere. We recommend this variety to all who want a large, smooth, late variety for the main crop. Fruits are of bright scarlet color, very large, round, slightly flattened and very smooth. Pkt. 5c, $\frac{1}{2}$ oz. 15c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.25, prepaid.

628. JOHN BAER—A splendid early tomato, one of the very best in cultivation, producing bright red solid fruit early in season. It is enormously productive, often bearing 10 fruits in a cluster. Tomatoes are solid and meaty, with few seeds, and ripen right up to the stem, even when they are dead ripe, they do not burst open. The flavor is deliciously sweet and mild. This variety stands shipping and marketing well, and is also one of the most desirable for the home garden. Pkt. 8c, $\frac{1}{2}$ oz. 20c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$2.75, prepaid.

635. BONNY BEST—About as early as Earliana, and a most prolific bearer, as it sets 12 to 15 globe-shaped scarlet fruits in the crown of the plant, which are all of the same size. It is a most desirable sort to grow for market, as it grades so evenly and ripens up evenly to the stem, without crack or black spot. Pkt. 8c, $\frac{1}{2}$ oz. 20c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$2.75, prepaid.



New Break O'Day.

F. S. & N. Co.

Graettinger, Ia., Oct. 15, 1932.

We are using your seeds and find them all very satisfactory. The Oxheart Tomato was extra fine—it is surely a wonderful Tomato for eating sliced.

C. F. Wolden

TOMATOES

636. CRIMSON CUSHION OR BEEFSTEAK—Very large, round, and uniform, bright scarlet in color. Flesh is solid and meaty, of deliciously mild flavor, with only a few small seed cells. The vines grow from 8 to 10 feet high, and may be trained or tied to a trellis, forming a most ornamental fence for the vegetable garden. If planted early, Beefsteak will ripen by the middle of July, and continue to bear until killed by frost. Pkt. 10c, ½ oz. 25c, oz. 40c, ¼ lb. \$1.40, prepaid.

638. COLOSSAL—An immense handsome tomato ripening medium early. It is bright red, of truly mammoth size, often weighing 2½ pounds, round and smooth. Flesh is firm, solid and of finest quality and flavor, with very small core, making it one of the best for slicing. It is also one of the best for canning on account of being so nearly free from acid. Pkt. 10c, ½ oz. 45c, oz. 75c, ¼ lb. \$2.50, prepaid.

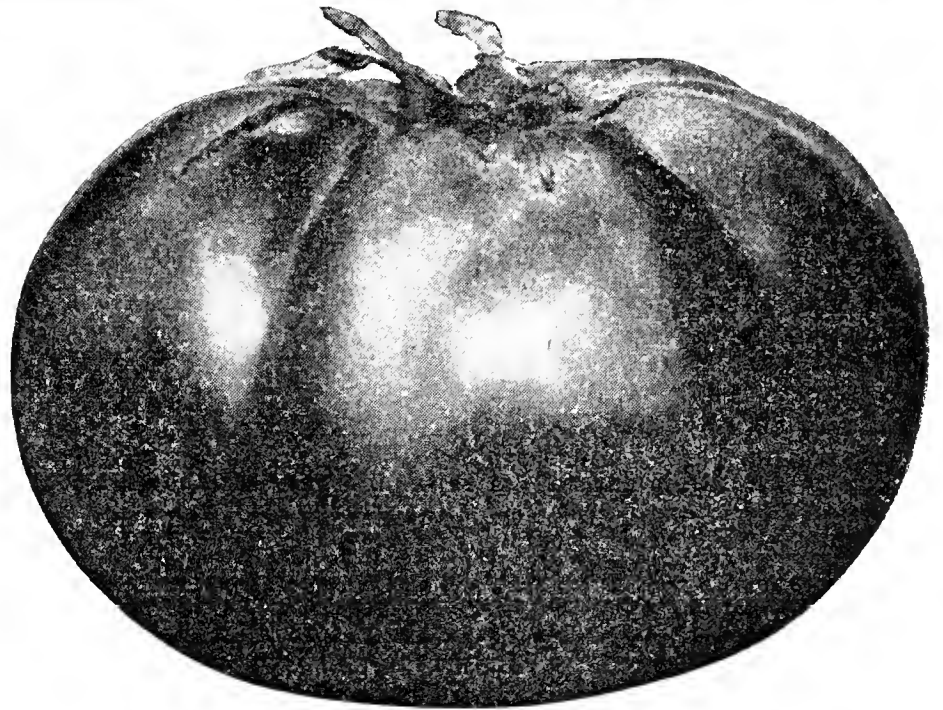
639. GIANT PONDEROSA—The largest tomato grown, crimson purple in color. A splendid sort for home use and canning, as the fruits are so solid, meaty, and free from acid. It ripens quite early, and bears all summer, until very late. Vines are vigorous and strong. We consider this one of the very best tomatoes grown. Pkt. 10c, ½ oz. 25c, oz. 40c, ¼ lb. \$1.40, prepaid.

640. GOLDEN QUEEN—A fine large yellow sort that ripens evenly. Fruit is smooth, of good quality and flavor. This tomato is fine for the home garden, for salad and yields heavily. Pkt. 8c, ½ oz. 20c, oz. 35c, ¼ lb. \$1.25, prepaid.

642. GOLDEN PONDEROSA—A beautiful salad tomato, of the same size, shape and habit of growth as the red Ponderosa, but a clear golden yellow. It is particularly attractive served with the red variety, in salads. The fruits are massive, firm and solid, very mildly acid, and of delicious flavor. Its fine quality is bringing it into popular favor as a table variety, and it is worthy of a place in every garden. Pkt. 10c, ½ oz. 25c, oz. 40c, ¼ lb. \$1.40, prepaid.

643. NEW "TANGERINE"—A decidedly outstanding new variety for main crop. Produces an abundance of large heavy fruits, measuring four inches in diameter, with about the same depth. Has a beautiful rich orange skin, resembling a ripe tangerine in color. Flesh is a mellow golden yellow and very appetizing.

Tangerine is a real quality Tomato with flavor rich and tasty, though not containing the high acidity of most Red Tomatoes. Its beautiful appearance also makes Tangerine a much prized novelty for your garden. Pkt. 20c, ½ oz. 50c, oz. 90c, 4 ozs. \$3.20, ½ lb. \$6.00, prepaid.



Giant Ponderosa.
One of the Largest Prize-Winning Sorts.

653. GROUND CHERRY OR HUSK TOMATO—The small yellow fruits are enclosed in husks, and are very sweet, with a strawberry-like flavor. They make delicious preserves, combined with oranges, lemons, or ginger, and, are sometimes dried in sugar, like raisins. Seed germinates very slowly. Pkt. 8c, ½ oz. 20c, oz. 35c, ¼ lb. \$1.30, prepaid.

TRANSPLANTED TOMATO PLANTS

The following varieties ready for shipment in May and June: Scarlet Ex. Early June, Earliana, Ponderosa, Faribault Dwarf Champion, John Baer, Break-O-Day, Scarlet Topper, Oxheart and Tangerine. 12 for 35c, 100 for \$2.25, prepaid.—Not prepaid, 1,000 for \$15.00.

For Cabbage, Cauliflower, Celery, Chives, Ground Cherry, Pepper, Sweet Potato and Egg Plants, see page 26.

TURNIPS AND RUTABAGAS

One ounce will sow 125 feet of drill, two pounds per acre in drills, three pounds broadcast. Please order by name and number.

CULTURE—Turnips and Rutabagas do best in highly enriched, light loam soil. In rich soil and cool weather, they grow rapidly, without becoming bitter in flavor. Sow in April, in drills 12 to 15 inches apart, and thin out to stand 8 inches apart in the row. Rutabagas keep much longer than Turnips, otherwise there is but little difference in flavor.



Improved Purple
Top Rutabaga.

681. EXTRA EARLY PURPLE TOP MILAN TURNIP—Like White Milan, except that the roots are purple on the upper portion. The Milan turnips are some of the very best extra early garden varieties we have. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c, prepaid. 5 lbs. at 65c per lb. not prepaid.

683. WHITE EGG TURNIP—An early variety, adapted for either spring or fall sowing. It is perfectly smooth, with a clear white skin and flesh, and grows half out of the ground. A very fine kind for table use, being of excellent flavor, mild and sweet; roots look like huge white eggs. Six hundred bushels have been raised on an acre as a second crop. Pkt. 5c, oz. 8c, ¼ lb. 15c, lb. 50c, prepaid. 5 lbs. at 45c per lb., not prepaid.

685. PURPLE TOP WHITE GLOBE TURNIP—The most popular market turnip. Roots are of globular shape, and good size, and in appearance are the best of all varieties. The flesh is firm, fine grained, white and of excellent flavor. It is a fine keeper and as desirable for table as for stock. Pkt. 5c, oz. 8c, ¼ lb. 15c, lb. 50c, prepaid. 5 lbs. at 45c per lb., not prepaid.

686. EARLY PURPLE TOP STRAP LEAVED TURNIP—A good flat variety, quite early, only about a week later than the Milan. Roots flat, medium sized, of purple or dark red color above the ground and white below; flesh white, fine grained and tender; leaves few, upright in growth. Pkt. 5c, oz. 8c, ¼ lb. 20c, lb. 65c, prepaid. 5 lbs. at 60c per lb., not prepaid.

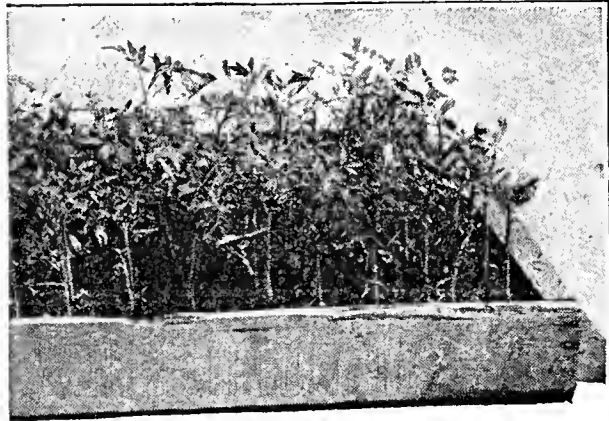
698. IMPROVED AMERICAN PURPLE TOP RUTABAGA—Uniform in shape, of fine quality, and a splendid keeper. The roots grow to a large size, have small tops, short necks, and smooth skin; flesh is beautiful yellow, fine grained, very sweet, tender and of excellent flavor. This is about the best and most profitable variety, both for table use and stock feeding. Pkt. 5c, oz. 8c, ¼ lb. 20c, lb. 65c, prepaid.—Not prepaid, 5 lbs. and more at 60c per lb.

699. WHITE OR SWEET RUSSIAN RUTABAGA—Very desirable either for the table or for stock. The tops are small, with leaves cut at the edges. The roots are very large, nearly globe shaped, color white with green or bronze at the top. Flesh white, very firm and sweet. Pkt. 5c, oz. 8c, ¼ lb. 20c, lb. 65c, prepaid.—Not prepaid, 5 lbs. and more at 60c per lb.

700. YELLOW MAMMOTH RUTABAGA—A large size root of good shape, a heavy yielder and very hardy. One of the most profitable to grow. Keeps well. Pkt. 5c, oz. 8c, ¼ lb. 20c, lb. 65c, prepaid.—Not prepaid, 5 lbs. and more at 60c per lb.

701. F. S. & N. CO'S EARLY NECKLESS—A new variety and a great improvement over Purple Top Yellow Rutabaga. It is three weeks earlier—entirely neckless—free from side roots, round and uniform. Its bulbs are half grown before American Purple Top starts to bulb. Another money maker for market gardeners and a quality vegetable that sells on sight. Pkt. 8c, oz. 12, ¼ lb. 30c, lb. 75c, 5 lbs. at 65c per lb.

VEGETABLE ROOTS AND PLANTS



Transplanted Tomato Plants.

RHUBARB OR PIE PLANT

Rhubarb affords the earliest sauces and pies in spring. Set roots out in spring or fall, in rows 4 feet apart, so the crowns are an inch below the surface. Do not pull stalks the first season. Plants set out in the spring will bear quite abundantly the following season. Fertilizing in the fall will be of great help to the next season's crop. Price: By mail, 3 for 30c, 12 for \$1.00, postpaid.—Not prepaid: 100 for \$5.50.

BERMUDA ONION PLANTS

To mature extra early, these are grown in Texas, under winter conditions that make them extremely hardy and vigorous. They produce the finest flavored mild onions, in just a short time. They are excellent to grow for green onions, early in spring, or they may be allowed to develop to their full size and used in the fall. They grow large and are fine for market.

We ship Onion Plants at proper time for setting out. We cannot take orders after May 1.

Prices: 200 plants, 40c, 500 plants 75c, 1,000 plants, \$1.15, prepaid. Case of 6,000 plants, \$4.25, not prepaid, weight, 35 lbs.

FROST PROOF CABBAGE PLANTS

No Delivery Beyond the Third Zone (300 Miles).

These plants are extremely hardy, and produce the earliest cabbage, fully three or four weeks ahead of any other plants. They are grown in Texas, during the winter, when the weather is often freezing, enduring cold rains and sleet. They can be set out as soon as the ground can be worked and are not injured by shipping or transplanting, as they make strong growth. They are cheap, profitable and sure to grow.

We offer the three best sorts in bundles of 100 of a kind only, which cannot be divided. Prices include postage.

EARLY JERSEY

WAKEFIELD.....

FLAT DUTCH.....

COPENHAGEN.....

MARKET.....

	Per 100	200	500	1,000
WAKEFIELD.....	\$0.50	\$1.00	\$2.00	\$3.00
FLAT DUTCH.....				
COPENHAGEN.....				
MARKET.....				

Not available after May 1.



Bermuda Onion Plants.

Don't fail to use "Sacco," the best all-purpose fertilizer to boost your garden—page 72.



Frost Proof Cabbage.

HORSE RADISH ROOTS MALINER KREN

The large white variety from Bohemia—much larger and sturdier roots than the common variety. Exceptionally fast grower and most profitable of all. Flesh pure white. By mail, 6 roots for 30c, 12 for 50c, 100 for \$2.50, prepaid. Large Roots for Grating: 10 lbs. \$1.00, prepaid.—Not prepaid: 25 lbs. \$1.50, 100 lbs. \$5.50.

ASPARAGUS ROOTS

Asparagus is the earliest of all vegetables ready for use in spring, and one of the most delicious. It is easily grown, and once a bed is established, tender, luscious asparagus may be cut each year, for a lifetime. It is also a most profitable vegetable to grow for market. The soil should be deeply dug, and plenty of fertilizer mixed in, before the roots are set out. Set the roots in rows 2½ to 3½ feet apart, 8 to 12 inches apart in the rows. The plants should be set so that the crowns are 2 inches below the surface. One-year-old plants are considered best for setting out.

For commercial planting 5,445 Asparagus Roots will plant an acre if set 2 feet apart and rows 4 feet apart, or 11,000 plants if set 1 foot apart and rows 4 feet apart.

WASHINGTON ASPARAGUS

A new rust resistant variety, of large size and rapid growth. The most profitable asparagus to grow for market, as it is of fine flavor, tender, and very prolific. The tips are firm and tight, and do not open out until quite tall. They are dark green and thick, of beautiful appearance when bunched. Price: One-year-old roots, 25 for 55c, 50 for 90c, 100 for \$1.50, prepaid.—Not prepaid: 500 for \$5.00, 1,000 for \$8.50.



Washington Asparagus Roots.

We supply good healthy transplanted plants of all the varieties listed below, in their proper season. Packing charges are included in the prices named. As soon as the transplants are taken from the flats in the greenhouse they are wrapped in moist moss and covered with oil paper, and mailed at once. Prices on plants in 1,000 lots are for seedlings. Special varieties will be especially grown for you if ordered early.

We cannot accept shipments beyond the third zone (300 miles) at prices quoted—all shipments beyond the third zone are sent at customer's risk.

TRANSPLANTED VEGETABLE PLANTS

FREE—Your choice of 1 dozen Cabbage or Tomato Plants with a paid order for 3 dozen or more Vegetable or Flower Plants. They will not be sent unless asked for. Order 3 dozen Plants (any Vegetable or Flower Plants)—get 1 dozen additional FREE.

50 or more plants at the 100 rate.

	Postpaid Dozen	Not Ppd. 100	1,000
CABBAGE, Early. Ready in April and May. Jersey Wakefield, pointed head; Copenhagen Market, Golden Acre, flat head.....	\$0.30	\$2.00	\$12.00
CABBAGE, Late. Ready in June. Hollander or Danish Ballhead, Premium Late Flat Dutch.....	.30	2.00	12.00
CAULIFLOWER. Ready in April and May. Super Snowball.....	.35	2.50	15.00
CELERY, Early. Ready in June. White Plume, Golden Self Blanching....	.35	2.00	12.00
CHIVES. Ready in April. Per bunch, about 1 doz. plants 30c. Per dozen bunches.....	1.75		
EGG PLANT. Ready in May and June. New York Purple.....	.50		
GROUND CHERRY. Ready in May and June.....	.45	3.25	
PEPPER. Ready in May and June. Bull Nose; Harris E. Giant, California Wonder.....	.40	3.00	
SWEET POTATO PLANTS. Ready in May and June.....	.40	2.25	13.00
SAGE. Ready in May and June. 6 for 30c, 12 for 50c.			
TOMATOES. Ready in May and June. Scarlet Topper, Scarlet Extra Early June, Golden Tangerine, Earliana, Ponderosa, Bonny Best, Faribault Dwarf Champion, John Baer, Oxheart.....	.35	2.25	15.00

ONION SETS AND GARLIC BULBS on page 17.



Hole-in-One Planter.

HOLE-IN-ONE PLANTING TOOL

Just the thing for setting out plants—makes a hole-in-one operation. Simply cut the tool into the soil and in withdrawing the tool, with a twisting motion, out comes a plug of soil—leaving a perfectly flat bottomed hole. No ragged edges, but a firm base for your plants.

This tool is made of high grade steel, rigidly constructed—finished in bright red. Price: 55c, prepaid.

The same tool with long handle, designed for hard work and with adjustable foot rest for controlling planting depth, \$2.75, prepaid.

FLOWERING PLANTS

ASTER PLANTS, American Giant Branching, all colors mixed. Long stems, finest large flowers for cutting. 40c per doz., 100 plants \$2.50, prepaid.

PANSY PLANTS, Giant Masterpiece, all colors mixed. Striped, spotted, bordered and ruffled, rich textures. 40c per doz., 100 plants \$3.50, prepaid.

PETUNIA, SALVIA, SNAPDRAGON OR ZINNIA PLANTS in best varieties. 40c per doz., 100 plants, \$2.50, prepaid.

VINCA ROSEA. If you want something different in a free blooming bedding plant, here is one that will prove a delightful surprise. Vinca Rosea grows about a foot high—has beautiful star-like flowers of rosy purple and white color. Some have a reddish eye. The flowers are frequently two inches across. The foliage is a glossy green and the plants bloom continuously from early spring until frost—very desirable for window boxes also. Set plants one foot apart and water frequently. Order early as our supply is limited. 6 plants for 50c, 12 for 75c, 24 for \$1.35, prepaid.

For House Plants, Porch and Window Box Plants, see pages 44-45.

For Strawberry Plants, see page 29.

REDWOOD WINDOW BOXES AND URNS

REDWOOD URNS

Neatly designed for decorative plants and flowers. Built of clear, hard Redwood, free of sapwood. Will outlast metal; cost much less than stone or concrete, and the design will harmonize with any style of architecture.

Solid one-piece bottom; pedestal legs; sides of solid one-inch clear boards with moulded corners to conceal joints; mitred top moulding to effect massiveness, yet not out of proportion. Nothing like it on the market.

Made in three sizes: Prices f. o. b. Faribault.

	Wt.	Price
"A" 8 in. high, 9x9 in. inside diameter.....	10 lbs.	\$1.15
"B" 10 in. high, 12x12 in. inside diameter.....	14 lbs.	1.55
"C" 12 in. high, 15x15 in. inside diameter.....	19 lbs.	2.10

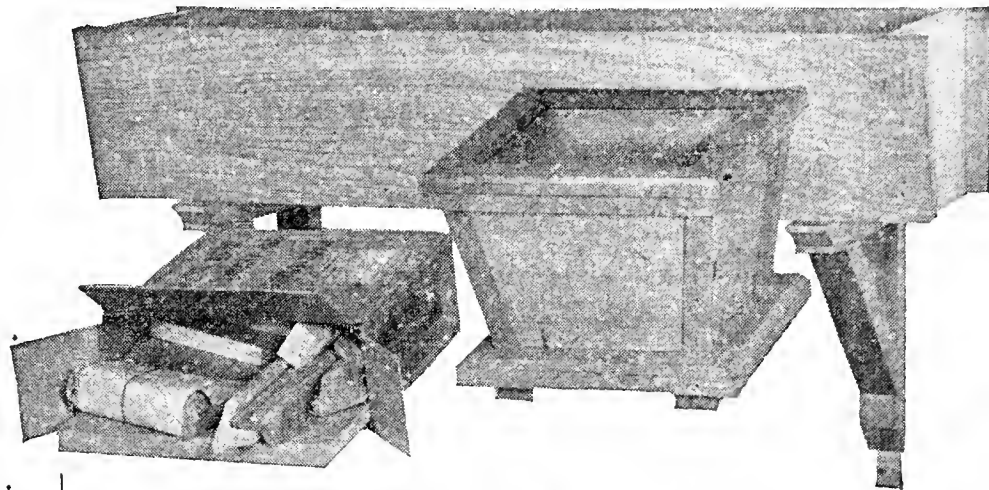
Packed one complete Urn, knocked down, in a carton with full instructions and the necessary nails for assembly.

REDWOOD WINDOW BOXES

With little expense, every home and apartment can be beautified, especially during the spring and summer months, by the addition of Porch and Window Boxes. Our Boxes are made from one-inch Clear Heart, dry Redwood, well milled; the ends fit into the sides, and the bottoms fit into the ends. They are finished in the natural Redwood color. Prices f. o. b. Faribault.

Size	Weight	Price
Size 8x8 inch, 2 ft., weight 7½ lbs.....		\$0.80
Size 8x8 inch, 3 ft., weight 10½ lbs.....		.95
Size 8x8 inch, 4 ft., weight 13½ lbs.....		1.30

Window box bottoms have holes bored for drainage. Window boxes or urns are not painted. Complete instructions for assembly are included in each carton, and sufficient zinc coated nails of proper size.



REDWOOD WINDOW BOX BRACKET

A simple bracket of clear Redwood which will accommodate either size window box. Furnished in the knock down, with necessary nails for assembly. Each piece completely milled, and consists of three pieces 1½x2x12. Price, per pair (wt. 3 lbs.) 40c, not prepaid. The above take 4th class rates, the very lowest of freight charges.

PRIZE WINNERS OF OUR 1932 WHITE GOLD POTATO GROWING CONTEST

Again our customers entered several hundred exhibits in our White Gold Potato Growing Contest. They came from all parts of the country and beautiful specimens they were. Hundreds of letters from satisfied customers testified that White Gold Potatoes again proved all that we claimed for them. That they were ready for the table two weeks earlier than Early Ohio, Irish Cobbler or Bliss Triumphs. To many it meant a good price for early market selling, though perhaps the majority expect to use their entire crop for seed the coming spring.

We regret that space permits printing but a few of the many letters received.

The contest was judged by H. Haas, Rice County Agricultural Agent at Faribault, and \$61.00 in cash was distributed to the lucky contestants. We give below the list of the prize winners and those receiving Honorable Mention.

1st prize—Merrel B. Day, Jefferson Highway Gardens, Robbinsdale, Minn.	\$20.00
2nd prize—N. Dellwo, Ronan, Mont.	15.00
3rd prize—Wm. D. Anderson, Brook Park, Minn.	10.00
4th prize—Mrs. Erick Nelson, Barron, Wis., R. 4, Box 16.	5.00

Receiving \$1.00 Each

Ella Thorsen, Grafton, No. Dak.	Frank Rach, Chaseburg, Wis.
Wm. Jenkins, Springfield, Minn.	J. H. Cline, Ladysmith, Wis.
M. F. Ott, Mt. Vernon, So. Dak.	Albin E. Johnson, Ellsworth, Wis.
Mrs. Carrie Mickelson, Plummer, Minn.	Chas. B. Dettmau, Caledonia, Minn.
Walter A. Podoll, Nortonville, No. Dak.	Mrs. Ed Wasserzieher, Deerwood, Minn.
Mrs. Elmer W. Johnson, Alexandria, Minn.	

Honorable Mention

Mrs. Chas. Herbst, Foley, Minn.	John J. Lean, Aneta, No. Dak.
Ernest Erickson, Pinewood, Minn.	Mrs. Mary Kircher, Pepin, Wis.
Lloyd W. Knapp, Lancaster, Wis.	Marvin Mueller, Winona, Minn.
Stanley Banach, Jr., Peshtigo, Wis.	Henry LeDuc, Cedar, Wis.
Aug. J. Binuebose, Raymond, Minn.	Edwin Seefeldt, Spencer, Wis.
Henry M. Ranolla, Cumberland, Wis.	Earl H. Mallinger, Oslo, Minn.
L. A. Wanamaker, Worthington, Minn.	
Mrs. Alex Pankratz, Springfield, Minn.	
Mrs. S. V. Latcham, Kerkhoven, Minn.	

SEE OUR NEW PRIZE LETTER OFFER ON PAGE 1.

WHAT SOME OF THE PRIZEWINNERS THINK

F. S. & N. Co. Robbinsdale, Minn., Aug. 24, 1932.

We have had an unusual growing season, dry during early summer and then heavy rains, followed by another dry spell. Your White Gold, however, came through this period in perfect condition and but few imperfect tubers were found. Proved to be as early as you claimed for them. Planted on May 4th and the plants were through the ground on the 14th. As to the yield, I figure they will go around 300 bushels per acre. There is no doubt that in this Potato you have the standard Early Potato of the future.

Merrel B. Day, Jefferson Highway Gardens. Ronan, Mont., Aug. 23, 1932.

F. S. & N. Co.

I put in a half acre of White Gold Potatoes, and had them all sold before any one else had Potatoes to offer.

N. Dellwo, P. O. Box 425.

F. S. & N. Co. Brook Park, Minn., Aug. 20, 1932.

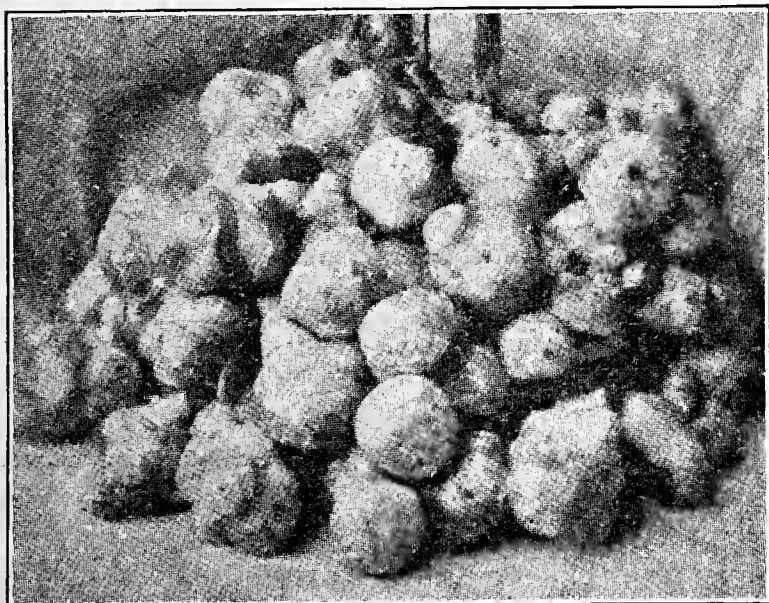
I planted White Gold Potatoes alongside of Green Mountains and Rural Russets. The White Golds were the best yielders. I have farmed here for 15 years and this is the poorest potato year we have had on account of drought—have had very little rain all summer. White Gold, I am sure, will yield 175 bu. per acre even at that and for eating they cannot be beat.

Wm. D. Anderson, R. 2. F. S. & N. Co. Barron, Wis., Aug. 18, 1932.

Although everything suffered from heat and drought in our section, your White Gold Potatoes yielded far above my expectations, and they are certainly everything you claim for them. They are ripe two weeks earlier than Irish Cobblers.

I also got some of your Ideal Silo Corn and everybody who sees our field, admires it. It certainly is a real corn for the silo.

Mrs. Erick Nelson, R. 4, Box 16.



A Single Hill of "Girasol."

"GIRASOL"—The Lazy Man's Spud

"Girasol" is a tuber, related to both Artichokes and Sunflowers. It is a native of America, though has been grown in Europe for many years, especially in France. The tubers outyield potatoes 2 or 3 to 1, yielding from 10 to 20 tons per acre. Girasol tops yield 10 to 20 tons of silage per acre. The foliage becomes so dense that after one or two cultivations the weeds cannot survive.

Girasol is propagated by tubers only and cannot become a serious pest. It is not injured by freezing, and it may be harvested in the fall or the spring following.

All stock and poultry like Girasol tubers, but it is most profitable for hog feed. Trials along this line have yielded 744 lbs. pork gain per acre.

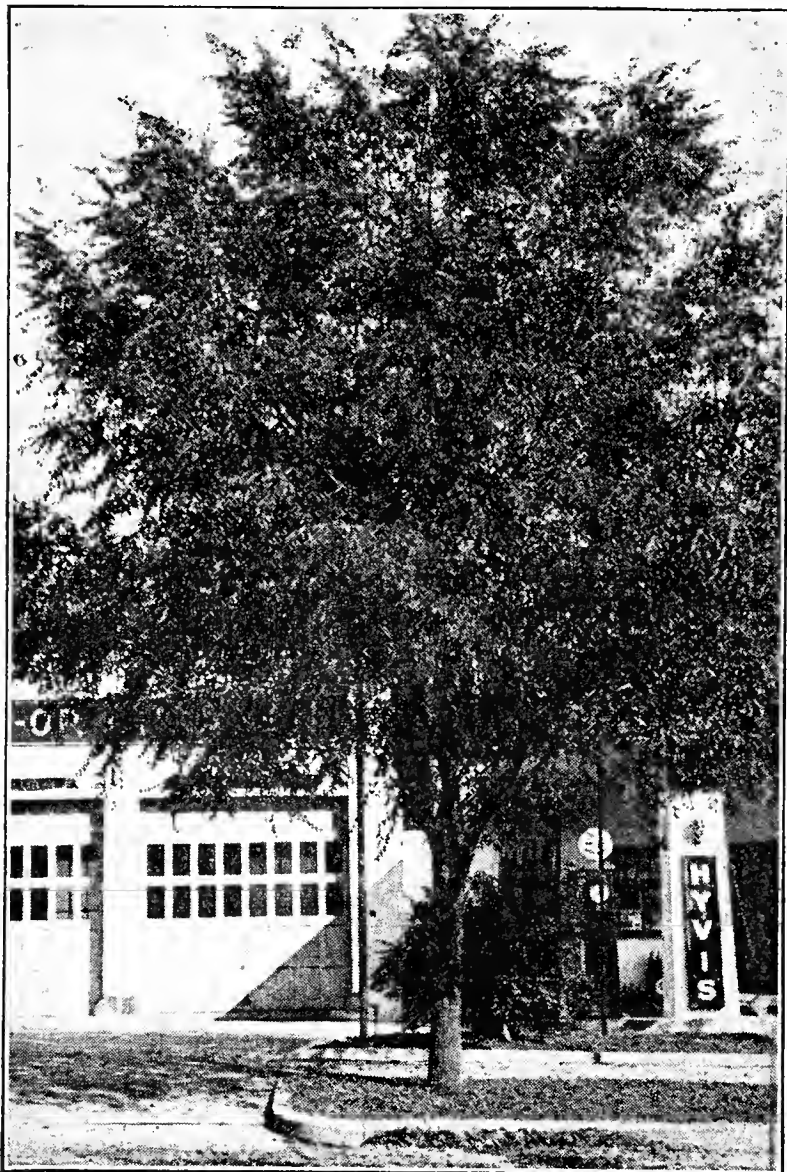
VALUABLE FOOD FOR DIABETICS.

The tubers may be eaten raw, or cooked, and are used for human consumption the same as other vegetables. Millions of people who have to limit their use of starchy food, may substitute Girasol in which the carbohydrates are in the form of inulin instead of starch. It is particularly valuable for diabetics.

Planting should be done in rows so that silage can be cut with a corn binder and the tubers dug with a potato digger. Will grow on most any kind of soil, the richer the better. Cut the tubers and plant like potatoes.

5 lbs. 60c, prepaid.—Not prepaid, ¼ bu. 85c, ½ bu. \$1.40, bu. \$2.50.

HARDY NORTHERN GROWN NURSERY STOCK



Chinese Siberian Elm, 6 Years Old; Showing Results Even in an Unfavorable Location.

CHINESE SIBERIAN ELM

The True Northern Strain—Rapid Growing—Hardy—Drought-Resistant—New King of Trees.

No other Tree is in as great demand at the present time as the Chinese Elm. It is the fastest growing, most satisfactory shade and ornamental or windbreak Tree. The U. S. Department of Agriculture, Bulletin 945, says it is a rapid grower, with slender, almost wiry branches. It is one of the first trees to leaf out in the spring, and the last to shed its leaves in the fall. It is remarkably free from the usual plant diseases and insect injury to the common Elm. It is very hardy and has proven valuable under a greater variety of climatic and soil conditions than any tree yet introduced. Its resistance to drought, alkali and extremes of temperature render it especially valuable.

The Chinese Elm is adapted to any part of the United States. For windbreak or screen, its natural habit of branching from the ground if left untrimmed, makes it especially desirable. It will thrive where other trees could never exist and will grow to a height of 60 feet, attaining a girth of 12 feet, though can easily be controlled by pruning. Luxurious shade may be enjoyed in just a few short years and some specimens have reached a height of 23 to 25 feet in four years, with a spread of 18 feet. See page 33.

Plan now! for SPRING PLANTING

**NEW FRUIT GROWING POSSIBILITIES FOR THE NORTHWEST
LOWEST PRICES IN HISTORY**

Never in our history have we made such wonderful offers in hardy Fruit and Ornamental Trees, Shrubs, Plants and Vines. The very choicest new Fruits and Berries developed by the Experiment Stations of the Northwest may now be had at about production cost. It is the chance of a lifetime to beautify your place—to plan that outdoor living room—improve the landscape—set out that long desired orchard and start a real Berry patch.

We Help You Plan

If uncertain what to plant, send us a rough pencil sketch of your yard—indicate dimensions and present plantings. Tell how much you feel like investing, and you will be surprised at the wonderful collection of Trees and Shrubs just a few dollars will buy, and the great improvement and increased value it will add to your property.

Minnesota grown Nursery Stock must be hardy. It does cost more to produce it here, therefore do not compare our quotations with Iowa or Nebraska grown stocks. Plant for the future, and consider well how our Fair Play Guarantee protects you.

Landscape Plans

We make no charge for suggestions where and what to plant, if a rough sketch is sent to us. However, if a detailed plan is wanted, drawn to scale by our expert landscape draftsman, a charge of \$2.00 is made. This charge, however, may be deducted if an order for Nursery Stock is placed with us, amounting to \$15.00 or over. No detailed plan can be prepared after April 1st, for want of time.

Shipping Season

As a rule we can ship about March 15th—throughout April and May. All items are securely packed and guaranteed to reach destination in good growing condition. Instructions for care and planting accompany each order.

Send Part Remittance Only

Make your selections now, so the best specimens may be reserved for your order. Don't wait until the busy planting season is at hand. Send us only 25% of amount due, with the order—balance can be paid at shipping time.

Note—Owing to the great expense of handling and packing Nursery items, we cannot accept orders for Trees, Shrubs or Plants totaling less than 75c.

Parcel Post Shipments

Allow plenty of postage to cover weight of stock and packing material. Any over-payment will be refunded. Two or three 4-5-ft. Trees, or four or five 3-4 ft. Trees can be sent parcel post for 25c to 35c. We reserve the right to ship the most practical way.

OUR FAIR PLAY GUARANTEE

All of our nursery stock carries the Minnesota Inspection Certificate and is guaranteed true to name and in good growing condition. If for any reason you do not find everything just as represented, notify us at once and we will order shipment returned, refund your money or replace the items without charge.

The prices at which we sell our nursery stock are most reasonable, but regardless of our low prices, if the stock fails to grow with proper care, where planting instructions have been followed, we will replace such stock at one-half of the catalog price, provided the loss is reported to us not later than August 15, 1933. Replacement will be made the following spring.

THE MOST TALKED OF TREE OF THE DAY

The Chinese Elm comes from northern Manchuria and Siberia—the land that has given us Sweet Clover, Alfalfa, Siberian Pea Tree and Dwarf Red Maple, also the Rugosa Rose. It is a land rich in thrifty and hardy plants. No wonder this remarkable tree is taking the country by storm and it is difficult to supply the demand. It is unusual to discover a tree that will grow in poor soil—grow rapidly in spite of neglect, and at the same time combine the gracefulness, dignity and rare beauty of our finest trees. The Chinese Elm has come to stay and will soon be among our most valuable trees for the lawn or street planting. Be sure to include them in your order.

\$1.00 NURSERY BARGAINS—VALUES YOU CANNOT AFFORD TO PASS UP

We offer a group of exceptional nursery values to convince you of the unusual buying power of a dollar—in dependable Nursery Stock. Don't compare these with semi-hardy stock grown in Michigan, Iowa, Nebraska, Missouri, etc., for Minnesota-grown nursery stock has proven its unusual hardiness.

We cannot divide or change these bargain offers in any manner. Make your choice and order by lot number.

- Lot A 30—New Chinese Siberian Elm 12-18 inches
- Lot B 50—New Chinese Elm 9-12 inches
- Lot C 30—Norway Spruce Seedlings 6-8 inches
- Lot D 10—Colorado Blue Spruce Seedlings... 6-8 inches
- Lot E 5—Phlox, Assorted—Red, White and Pink.
- Lot F 10—Spirea Van Houttei 12-18 inches
- Lot G 6—Hydrangea P. G. 12-15 inches

**Your Choice
Any Lot—
\$1.00 Prepaid
6 For \$5.45**

- Lot H 5—Roses—3 Everblooming and 2 Climbing. Our selection of Red, White and Pink varieties.
- Lot I 6—Japanese Barberry 12-18 inches
- Lot J 10—Beta Grapes. Strong No. 1 plants.
- Lot K 20—Latham Red Raspberries—No. 1 plants.
- Lot L 15—Cumberland Black Raspberries—No. 1 plants.
- Lot M 12—Concord Grapes—No. 1 plants.

NORTHERN GROWN STRAWBERRY PLANTS



Senator Dunlap.
Always Dependable.

FREE DOLGO CRAB A fine 4-5 ft. Dolgo Lawn Crab, shown on front cover, may be had Free with a \$5.00 order for Shrubs or Trees (collections excepted), if received by May 15, 1933. Ask for it.

SENATOR DUNLAP

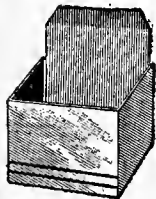
The old standby and the most satisfactory and productive June bearing variety. Does well wherever planted. Ripens medium early and continues to bear for a long time. The berries are large, beautiful form and color. Fruit firm and of luscious flavor. Good shipper. Price: 50 for 50c, 100 for 70c, 500 for \$2.50, 1,000 for \$4.50, prepaid.

DR. BURRILL

A medium early variety of exceptional productiveness, quality, size and firmness. It is one of the most profitable for the gardener. The berries are of even shape, firm and stand up well; attractive glossy red, with yellow seeds and a green calyx. Dr. Burrill is earlier than Dunlap and of just as fine quality. Price: 50 for 60c, 100 for 90c, 500 for \$3.00, 1,000 for \$5.50, prepaid.

BERRY BOXES AND CRATES

EWALD'S FOLDING BERRY BOX

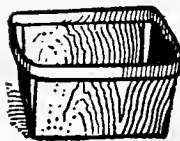


Complying with all state laws, this box is considered the most practical—saves time and effort—no nails or stapling. A strong non-collapsible box in standard quart and pint sizes.

Quart Size—100 boxes, \$1.50; 250 boxes for \$3.00; 500 for \$4.85; 1,000 for \$9.00.

Pint Size—100 boxes, \$1.25; 200 for \$2.25; 400 for \$3.95; 1,000 for \$8.00, f. o. b. Faribault.

AMERICAN ONE-QUART BASKETS AND CRATES



All made up—firmly constructed—standard size—packed nested. Our best seller and most economical to use. Price: 100 baskets, \$1.10; 500 baskets, \$3.85; 1,000 baskets, \$7.00.

16-QUART CRATES (K. D.)—Price: 10-25 crates, 24c each; 25-50 crates, 22c each; 50-100 crates, 20c each, f. o. b. Faribault.

OLD STYLE BERRY BOXES

Our Hallock Dry Measure Boxes are made of best grade white wood from two pieces of veneering and are scored to bend at the corners. Packed flat. Use 4-oz. Swede iron tacks. One lb. of tacks will make 1,000 boxes.

Crates—Made from best 1/2-inch seasoned lumber, planed 9 inches wide and 8 1/2 inches high. The sides are of veneering, 4 inches wide and 20 3/8 inches long. Cover is one solid piece of veneering. Use 1 1/8-inch cement coated nails.

Quart Boxes—100, 85c; 500, \$3.75; 1,000, \$6.00.

Pint Boxes—100, 75c; 500, \$3.35; 1,000, \$5.75.

Sixteen-quart crates—100, \$17.25; less quantities, 22c each.

Twenty-four quart crates—100, \$23.00; less quantities, 28c each.

Twenty-four pint crates—100, \$17.50; less quantities, 21c each.

Forms for box making, 50c each. 4-oz. Swede iron tacks, 50c per lb.

All
Prices
Quoted
f. o. b.
Faribault.

HOW TO SUCCEED WITH STRAWBERRIES

There is no trick about growing the best strawberries in any ordinary garden soil. Now you can buy strong, well-rooted plants, guaranteed to reach you in perfect condition for about half the usual nurseryman's prices direct from our farms.

Plants should be set about 18 inches apart each way in a small garden, or in rows 5 ft. apart and the plants 1 ft. apart for field culture. This would require 8,700 plants to the acre or a trifle over 50 plants to the rod of land. With good care one may expect one pint of fruit to the plant. Some varieties have yielded 10 to 15,000 quarts per acre.

Spring planting is best. Spread out the roots in setting out plants, water them thoroughly and pack down firmly. Cut runners after blooming time, to strengthen the plants and increase size of the berries. Plants will usually bear 3 to 5 years.

Note—Prices quoted are prepaid to 3rd zone only (300 miles). Shipments beyond go at purchaser's risk and expense.

GENUINE EVERBEARING MASTODON

The world's greatest and largest Everbearing strawberry. From early summer into late fall, you can enjoy these large, fine-flavored berries and produce more fruit per square foot of ground than with any other strawberry ever introduced. Reports from satisfied customers are astounding—50 to 60 berries per plant are reported and gardeners are reaping the biggest profits ever made from any one variety.

Three hundred and fifty to 400 16-qt. cases per acre have been reported by growers—15 to 20 berries filling a quart box.

One hundred plants will supply the average family with berries throughout the season and allow plenty for canning besides.

Last season we could not nearly fill our orders and the demand the coming spring will be even greater. In order to secure genuine Mastodons, hardy northern grown plants, get your order in early.

We offer genuine Mastodon strawberry plants at real bargain prices, freshly dug and guaranteed to reach you in prime condition. Price: 25 for 60c, 50 for \$1.00, 100 for \$1.50, 500 for \$7.00, 1,000 for \$13.00, prepaid.

PROGRESSIVE EVERBEARER

The standard Everbearing variety which will produce berries from June until November as far north as Duluth. Berries are of medium size—somewhat pointed, dark red in color and of exceptionally fine flavor. The flesh is extra firm and sweet, requiring but little sugar in preserving. This variety forms strong runners which bear heavily the first season and produce enormous crops. Blossoms on all Everbearing varieties should be kept picked until July 15th, from newly set plants. Price: 25 for 55c, 50 for 90c, 100 for \$1.50, 500 for \$5.75, 1,000 for \$10.00, prepaid.

BLAKEMORE

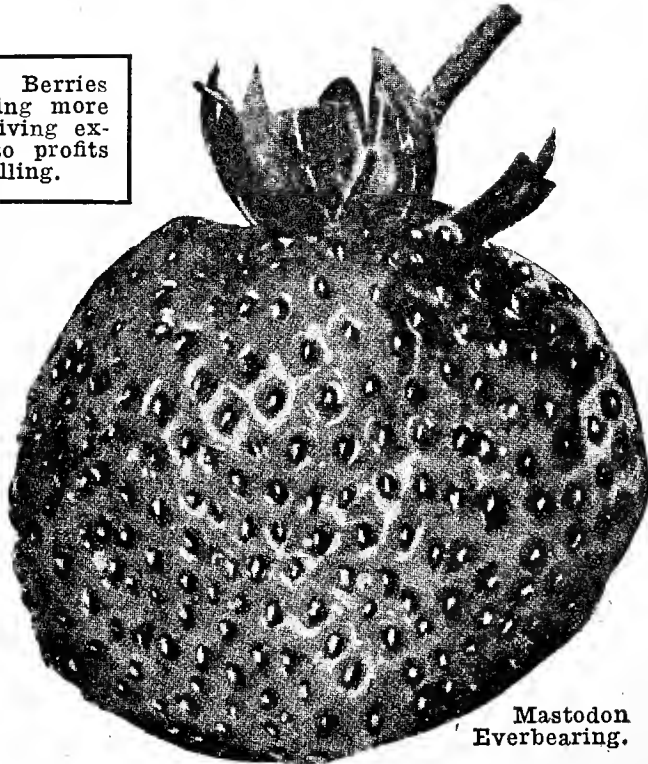
Another much talked of new introduction—producing beautifully shaped, bright red berries. Firm flesh and resistant skin make Blakemore an ideal keeper and shipper. It has perfect flowers, is exceptionally early and of a distinct delicious flavor. We predict a great future for this berry and the demand this spring will be exceptionally great. Price: 25 for 45c, 50 for 80c, 100 for \$1.25, 500 for \$4.00, 1,000 for \$7.00, prepaid.

NOKOMIS

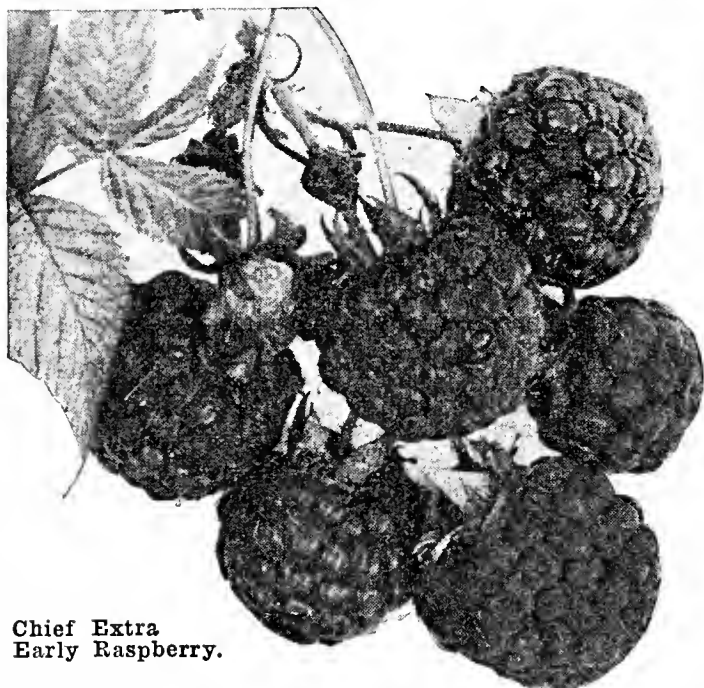
The outstanding Minnesota introduction. A good plant-maker, hardy, very productive—especially valuable for home use and local markets. Foliage very heavy—the leaves large, dark green and long stems. Flowers are perfect, and the fruit very large, conic, slightly necked, medium red, slightly glossy. Flesh is very fine and the flavor sweet. Ripens midseason and for local market the tremendous yield makes this variety an outstanding profit maker. Price: 25 for 45c, 50 for 80c, 100 for \$1.25, 500 for \$4.00, 1,000 for \$7.00, prepaid.

All of our plants are freshly dug and guaranteed to reach you in perfect condition.

Grow your own Berries and Fruits. Nothing more healthful. Saves living expense—and adds to profits through market selling.



Mastodon
Everbearing.



Chief Extra
Early Raspberry.

CUMBERLAND BLACK RASPBERRY

The most satisfactory black variety. It is a vigorous grower, producing large size berries in great abundance. The most profitable market berry on account of its shipping qualities.

Price: 1-yr. Select Plants, prepaid, 25 for \$1.00.—Not prepaid, 25 for 75c, 50 for \$1.25, 100 for \$2.25, 200 for \$3.50, 300 for \$4.60, 400 for \$5.50, 500 for \$6.50, 1,000 for \$12.00.

2-yr. Transplants, prepaid, 15 for \$1.00.—Not prepaid, 25 for \$1.50, 50 for \$2.75, 100 for \$4.50, 200 for \$7.00, 300 for \$9.75, 400 for \$12.50, 500 for \$15.25, 1,000 for \$30.00.

HARDY NEW FRUITS AND BERRIES AT LOWEST PRICES IN HISTORY

Minnesota grown Nursery Stock should not be compared with stocks grown in the central and southern states. The exceptional hardiness and vigor of our northern grown Trees and Plants and the outstanding new introductions by the State Fruit Breeding Farm assure you of a quality and hardiness that cannot be surpassed.

"LATHAM" BIG LUSCIOUS RED RASPBERRY

The Outstanding Raspberry of All Times.

State Inspected, Mosaic-Free, Strong Plants. (See illustration, page 39.)

Latham has outstripped every other variety in point of yield and hardiness. The fruit is larger than other varieties—easy to pick and commands top market prices. In a yielding contest, Latham produced 5,430 quarts per acre. This wonderful Raspberry received the highest award of state and nation in 1927 when the American Pomological Society awarded to Latham the "Wilder" medal. It is considered the highest award of its kind in America and has never before been given to any Raspberry.

We offer only Mosaic-Free Latham plants—state inspected—free from disease. Even the smallest garden patch should have a few bushes—they are easy to grow and very productive.

Price: 1-yr. Select Plants, prepaid, 25 for \$1.00.—Not prepaid, 25 for 75c, 50 for \$1.00, 100 for \$1.75, 200 for \$3.25, 300 for \$4.75, 400 for \$5.75, 500 for \$6.50, 1,000 for \$12.00. 2-yr. Select Plants, prepaid, 20 for \$1.00.—Not prepaid, 25 for 80c, 50 for \$1.50, 100 for \$2.20, 200 for \$4.20, 300 for \$6.00, 400 for \$7.50, 500 for \$9.00, 1,000 for \$17.50.

NEW "CHIEF" EARLIEST RED RASPBERRY

An Offspring of the Famous Latham—10 Days Earlier. (See illustration, page 39.)

The newest outstanding variety from the Minnesota Fruit Breeding Farm. A seedling of the famous Latham and selected for its earliness and superior quality. New Chief has been carefully tested and has proven hardy—a heavy cropper, a good shipper, resistant to disease and is ten days earlier than the Latham. We advise planting both Chief and Latham for continuous production of fruit. Chief is easily grown in any garden soil.

Price: 1-yr. Select Plants, prepaid, 15 for \$1.00.—Not prepaid, 25 for 80c, 50 for \$1.40, 100 for \$2.00, 200 for \$3.80, 300 for \$5.50, 400 for \$6.50, 500 for \$7.50, 1,000 for \$13.75.

2-yr. Select Plants, prepaid, 10 for \$1.00.—Not prepaid, 25 for \$1.00, 50 for \$1.75, 100 for \$3.00, 200 for \$5.50, 300 for \$7.50, 400 for \$9.75, 500 for \$11.75, 1,000 for \$22.50.

Note—1,742 plants are required per acre if planted 5x5 ft., 1,250 plants if planted 6x6 ft.

NEW PLUM SECRETS ARE DISCOVERED BY STATE

For years fruit growers have been baffled by the failure of some of their best Plum Trees to bear in certain locations. The State Fruit Farm finally found a remedy. They found that Plum Trees must have a mate and it must be a certain variety—just another Plum Tree won't do. It takes a certain variety to properly pollinate your trees.

A careful search was made for the best mate and the Surprise Plum was the answer. When this Plum was used to pollinate other varieties, the results were almost invariably a bumper crop.

So if you have Plum Trees that have not borne satisfactorily, get a few Surprise Plum Trees and note the difference. It is a good Plum—sweet and juicy, and is the ideal mate for all other varieties.

Surprise Plum Price: 3-4 ft. 75c each, 5 trees \$3.50; 4-5 ft. 85c each, 5 trees \$4.00; 5-6 ft. 95c each, 5 trees \$4.50. Not prepaid.

HARDY GRAPES

Grapes are easily grown in any garden soil and pay the biggest dividends for the small attention required. These are the hardiest dependable sorts. Prune grapes from November to March.

BETA—Is as hardy as the wild grape and produces heavy crops every year. The fruit is of medium size, black, good quality, ripens early, so can be grown far north. Beta Grapes easily sell at \$2.00 per bushel. There is a good demand for the fruit for jelly and grape juice. Price, strong 2-yr. plants, 10 for \$1.00, prepaid.—Not prepaid, 25 for \$2.25, 50 for \$4.25, 100 for \$7.50. Ask for special prices on larger quantities. (See illustration, page 39.)

CONCORD—Large purplish black fruit, ripens middle of September. Suited to southern half of Minnesota with winter covering. Price, strong 2-yr. plants, 12 for \$1.00, prepaid.—Not prepaid, 25 for \$2.00, 50 for \$3.50, 100 for \$6.00. (Weight per 10 plants, about 5 lbs.) Ask for special prices on larger quantities.

HARDY PEARS

(See illustration on opposite page and page 39.)

If more folks realized what wonderful Pears may be grown in the Northwest, Pears would soon become as popular as Apples. The new hardy varieties compare favorably in size, quality and productiveness with those of the chief fruit-growing states. Growing Pears for market presents an opportunity that should prove profitable.

In planting, the soil should be loosened to a considerable depth as the trees send their roots straight down.

MENDEL—A Minnesota introduction that has proven hardy for nearly 20 years and requires no winter protection. The fruit is of excellent quality, medium large in size, sweet and juicy. The color is golden yellow. It is not affected by blight. Price—See below.

PATTEN—A northern Iowa introduction, producing good sized fruit similar to Bartlett in form. Color is a greenish yellow with a bronze blush on the exposed side. The flesh is tender and very juicy. Has rich sub-acid flavor. Price—See below.

TAIT—Originated in Canada—therefore perfectly hardy. A good fruiter and a real quality Pear that should be found in every garden.

Price: Your choice of the above varieties of Pears, 3-4 ft. 35c each, 3 trees \$1.00; 4-5 ft. 45c each, 3 trees \$1.20; 5-7 ft. 55c each, 3 trees \$1.50, f. o. b. Faribault.

FREE
DOLGO
LAWN CRAB

Send your order for Trees or Shrubs amounting to \$5.00 or more and receive a 4-5 ft. Dolgo Lawn Tree Crab Free (collections excluded). Must be requested.

CURRANTS

Currants and Gooseberries may be shipped into any state except Connecticut, Idaho, Maine, Massachusetts, Michigan, New Hampshire, New York, Rhode Island and Vermont.

NEW RED LAKE CURRANT MINNESOTA 24

The newest Minnesota introduction. A Currant that grows big, red berries in long clusters.

For years people have wanted a better Currant, so the State Fruit Breeding Farm went to work to develop something better. As a result of cross breeding, selecting and testing, they have produced this wonderful new Currant and named it Red Lake. The bushes are strong and vigorous with healthy foliage. They bear regularly and produce heavily.

Red Lake makes up into beautiful sparkling bright red jelly, and we predict a wonderful future for it, for either home use or market. We have been propagating this new Currant to give our customers the first opportunity of growing it. Only a limited supply is available this year—we therefore suggest you order early.

Price: 2-year-old plants, 3 for \$1.00, prepaid.—Not prepaid, 10 for \$3.00, 25 for \$6.00; 50 for \$11.00.

LONDON MARKET

One of the best standard red varieties that will thrive anywhere—requires little care or cultivation—is a good producer of fruit and excellent for jelly or jam.

Price: 2-year-old plants, 5 for \$1.00, prepaid.—Not prepaid, 10 for \$1.50, 25 for \$3.25, 50 for \$6.00.

GOOSEBERRIES

CARRIE. The best variety of the Gooseberry family. A heavy yielder of good-sized fruit. Perfectly hardy and recommended by Prof. Hansen as foremost in quality and productiveness.

Price: Prepaid, 4 for \$1.00.—Not prepaid, 10 for \$1.75, 25 for \$3.75, 50 for \$7.00.



New Red Lake Currant.

THE BEST IN APPLES ♦ NEW CALIFORNIA TYPE PLUMS

THE BIG RED HARALSON APPLE

The prize origination of the Minnesota Experiment Station. No finer red winter apple has ever been introduced. The outstanding feature of the Haralson is its keeping quality—keeping in perfect condition until late spring.

The Haralson is also free from blight, for while in the midst of other varieties badly affected by blight, the Haralson stood through it all entirely unaffected.

Best of all, the Haralson has the tendency to bear early—Haralson orchards therefore come into bearing much more quickly than most other varieties. It produces a good size, deep red apple of excellent flavor. See illustration on page 38. Prices: 3-4 ft. 35c each, 5 trees \$1.20, 10 trees \$2.20, 25 trees \$5.10; 4-5 ft. 45c each, 5 trees \$1.70, 10 trees \$3.20, 25 trees \$7.30; 5-7 ft. 55c each, 5 trees \$2.20, 10 trees \$4.20, 25 trees \$9.55.

ANOKA—THE SURPRISE APPLE

Fruit the second season—wouldn't that surprise you? A real quality apple, early to ripen, of fine color and excellent flavor. This sturdy little tree bears the second year, and each year thereafter, resisting blight and producing a consistent crop of fruit. It is well suited for the Northwest. A one-year-old tree at the Agricultural Experiment Station, Fargo, North Dakota, bore 26 good apples the second year. No need of waiting five to six years to enjoy your own fruit. Prices: 3-4 ft. 50c each, 5 trees \$1.95, 10 trees \$3.75, 25 trees \$8.65; 4-5 ft. 55c each, 5 trees \$2.20, 10 trees \$4.00, 25 trees \$9.15; bearing size \$1.00 each. Illustration on page 38.

WEALTHY—The leading apple for its season throughout the Northwest. The fruit is large, a beautiful shade of deep red, and the flavor excellent. It is one of the best eating apples that can be grown in the Northwest and ranks with Haralson in quality and commercial value. The Wealthy is a good keeper also and bears exceptionally heavy. Prices: 3-4 ft. 25c each, 10 trees \$2.00, 25 trees \$4.60; 4-5 ft. 30c each, 10 trees \$2.50, 25 trees \$5.60; 5-7 ft. 35c each, 10 trees \$3.00; 25 trees \$6.85.

McINTOSH RED—This variety has come into rapid favor as one of the most important fall and early winter varieties. Large orchards are being set out with McIntosh Red predominating. An exceptionally fine eating apple, of good size, bright red color, and a delicious aromatic flavor. Season, January. Prices: Same as Wealthy.

DOLGO—THE LAWN TREE CRAB

GENUINE STOCK—(See Front Cover.)

Here is the aristocrat of the Crab Apple family. It is not the kind of a Crab we have known in days gone by, but a fruit tree that should be on every home ground. To begin with, it has rare beauty as an ornamental lawn tree. It is extremely hardy, having been tested out in North and South Dakota. It is not subject to blight as were the old varieties. Bears an abundance of fruit and no long wait, for young baby trees in the nursery row have been known to bear fruit the third season.

Now, best of all—the apple itself is a very rich red and jells perfectly even when dead ripe. It is one of the finest canning crabs.

Prices: 3-4 ft. 40c each, 5 trees \$1.75, 10 trees \$3.20, 25 trees \$7.30; 4-5 ft. 50c each, 5 trees \$2.20, 10 trees \$4.20, 25 trees \$9.40; bearing size \$1.00 each. Special—See offer on front cover. A 4-5 ft. Dolgo Crab free with a \$5.00 order for trees or shrubs—If you ask for it. Collections excluded.

WHITNEY CRAB—This well-known favorite hardly needs description. A favorite in the home for canning and preserving. Boys like it because it is so good to eat off the trees. Fruit is of good size—very highly colored—free bearer, producing immense crops. You cannot go wrong on a few trees of the Whitney Crab. Prices: Same as Wealthy.

NORTHWESTERN GREENING—The fruit is very large, smooth, handsome, turning yellow as it matures. This is one of the best baking and cooking apples for late winter and spring. Season from December to March. Every orchard should have at least a few Northwestern Greenings. Prices: Same as Wealthy.

YELLOW TRANSPARENT—No orchard should be without a few of these delicious golden yellow apples. Good to eat long before other varieties are ready. Fruit large, yellow with crisp meat and a delicious flavor. Prices: Same as Wealthy.



Patten Pear Tree in Our Nursery.

DOUBLE RED DUCHESS—A new improvement on the Old Duchess of Oldenburg. Possesses all the good qualities of the Old Duchess including the early ripening, hardiness, and heavy regular bearing. In addition, it has **HIGH RED COLOR**. This outstanding red color makes Double Red Duchess a favorite on the market, and brings 50c to \$1.00 a basket more than other apples on the early market. Prices: 3-4 ft. 35c each, 5 trees \$1.50, 10 trees \$2.90, 25 trees \$6.65; 4-5 ft. 45c each, 5 trees \$2.00, 10 trees \$3.90, 25 trees \$8.80; 5-7 ft. 55c each, 5 trees \$2.50, 10 trees \$4.90, 25 trees \$11.30.

SURPRISE PLUM—Ideal for pollinating other varieties; sweet, juicy. Prices: 3-4 ft. 75c each, 5 trees for \$3.50; 4-5 ft. 85c each, 3 trees for \$4.00; 5-6 ft. 95c each, 5 trees for \$4.50.

SUPERIOR PLUM (MINNESOTA 194)—The 1933 sensation in the Plum World! This wonderful new Plum was originated at the State Fruit Breeding Farm by crossing different strains of leading Plums, including some of the big California Burbank varieties. After testing it out thoroughly in various sections, it has just been christened "Superior" by the Minnesota State Horticultural Society and is now released to the world.

This new Plum is conceded to be superior to any of the older varieties. As large as California Plums and surpassing them in quality. It has firm flesh and a beautiful red color. You can peel Superior as you would a Peach. We secured propagating wood direct from the State Fruit Farm two years ago and have a limited supply to offer. Prices: 3-4 ft. 75c each, 5 trees for \$3.50; 4-5 ft. 85c each, 5 trees for \$4.00; 5-6 ft. 95c each, 5 trees for \$4.50.

FIEBING PRIZE PLUM—This new big Red Plum introduced by Chas. Haralson, formerly superintendent of the Minnesota Fruit Breeding Farm. This delicious Plum was given the high award of the Fiebing Prize at the Minnesota State Fair in 1930. The fruit ripens early, is extremely large, firm flesh, excellent flavor and a beautiful red color. Fiebing is equal to California Plums in size and quality. You can peel Fiebing as you would a Peach. Only a limited number this year. Prices: Same as Superior.

UNDERWOOD—The best, most favorably known of the many Plums originated at the Minnesota Fruit Breeding Farm. Bears annually, is of large size and excellent flavor; flesh firm, small pit. It may be readily peeled for canning. Underwood and Waneta should be planted near together to insure setting of fruit. Prices: 3-4 ft. 35c each, 5 trees \$1.20, 10 trees \$2.20; 4-5 ft. 40c each, 5 trees \$1.70, 10 trees \$3.20; 5-7 ft. 45c, 5 trees \$2.20, 10 trees \$4.20.

TONKA—Has stood the severest tests of soil and climate for 20 years. Trees are exceptionally hardy and very productive. Fruit large, small pits, medium light red; flesh yellow, firm, sweet and tender. Skin smooth. Season, August 15th to September. Excellent commercial Plum on account of its long keeping and shipping qualities. Prices: Same as Underwood.

GOLDEN LA CRESCENT—A beautiful clear yellow, early Plum of delicious flavor. Perfectly hardy—bears profusely. A splendid Plum for home use or local market. Hardier than Goldeurod. Prices: Same as Underwood.

WANETA—Prof. Hansen's largest and best Plum; grows as big as a large peach. Beautiful, big red plums of delicious flavor, as good as the California Plums. Bears every year and should be in every orchard. Prices: Same as Underwood.

FAMOUS HANSEN CHERRY PLUMS

These wonderful Plums were originated by Prof. Hansen of the South Dakota Agricultural College, one of America's foremost plant breeders. They are as hardy as native wild Plums and have the delicious flavor and quality of fancy western fruit. Prof. Hansen advises that Sapa and Opata Plums be grown in bush form, rather than as trees. You get nearly twice as much fruit and the trees last longer.

OPATA—Earliest of all Plums and famous for its rich, wonderfully delicious flavor. Flesh is light green color with a purplish red skin. Very productive and hardy. Prices: 3-4 ft. 35c each, 5 trees \$1.20, 10 trees \$2.20; 4-5 ft. 40c each, 5 trees \$1.70, 10 trees \$3.20; 5-7 ft. 45c, 5 trees \$2.20, 10 trees \$4.20.

SAPA—Bears heavily the second year. Plums turn to deep glossy purple, almost black. The flesh is deliciously sweet and juicy, with very tender skin. It makes wonderful conserve and jelly. Plums hang on trees for three weeks and are of luscious flavor. Prices: Same as Opata.

HARDY CHERRIES

These hardy Cherries are making money for growers. Many are selling them "on the tree." The trees can be set 10 ft. apart—they begin fruiting the second year. Plant several varieties.

OKA CHERRY—A Hansen Sand Cherry hybrid of bushy habit. Bears fruit the first year. The fruit is rounder than Sapa, with black-red flesh and remains on the tree longer than most other varieties. Will do well most anywhere. Prices: 3-4 ft. 40c each, 5 for \$1.60, 10 for \$3.00; 4-6 ft. 60c each, 5 for \$2.20, 10 for \$4.00. Not prepaid.

NICOLLET CHERRY—About the size and flavor of the Michigan and Wisconsin pie cherries—pits are small and cherries ideal for pies and canning. Trees extra strong and of bearing size. Prices: 3-4 ft. 35c, 5 trees \$1.35, 10 trees \$2.50; 4-6 ft. 40c, 5 trees \$1.70, 10 trees \$3.30.

ZUMBRA CHERRY—Nearly black, of good size, very meaty, small seeds. The Zumbra tastes like the big California Cherries usually selling at high prices. Price: Same as Nicollet.

COMPASS CHERRY—Hardy all through the Northwest and Canada. Makes delicious pies, preserves, etc. Small black cherries, thin skin—sweet and fragrant. Blooms with Zumbra and Nicollet. Prices: Same as Nicollet.

EVERGREENS FOR LAWN AND FOUNDATION PLANTING

Modern plantings nearly all include Evergreens. Prices quoted are not prepaid.



Black Hills Spruce.

E-1—AMERICAN ARBOR-VITAE. One of the most valuable native Evergreens that is very easy to grow. The American Arbor-Vitae will thrive in most any situation—is suitable for ornamental planting, hedging or windbreak. Can be easily controlled by trimming. Price: Specimen stock, three times transplanted, 18 to 24 inches, 50c each, 2 trees for 90c. 2 to 3 feet, 75c each, 2 trees for \$1.40. 3 to 4 feet, \$1.25 each, 2 trees for \$2.25. If wanted with ball of earth, 50c per tree extra.

E-2—PYRAMIDAL ARBOR-VITAE. The outstanding dwarf ornamental Evergreen for home planting. Can be used close to the house or walk. Most effective in groups or pairs when used for ornamental planting. Grows compact and is of natural pyramidal form. Three times transplanted trees. Price: 18 to 24 inches, \$1.00 each, 2 trees for \$1.90. 2 to 3 feet, \$1.50 each, 2 trees for \$2.90. 3 to 4 feet, balled and burlapped, \$4.50 each, 2 trees, \$8.50. 4 to 5 feet, balled and burlapped, \$7.50 each, 2 trees for \$14.50.

E-3—JUNIPER PFITZERIANA. A highly ornamental Dwarf Evergreen, popular and hardy. Excellent for rock gardens. Immune from plant pests of all kinds. Assumes attractive, low, broad, irregular form, and can be sheared to any size or shape. Suitable for foundation planting and low dense mass effects. Price: Balled and burlapped, 12 to 18 inches, \$2.00 each, 2 trees for \$3.50. 18 to 24 inches, three times transplanted, balled and burlapped, \$3.50 each, 2 trees for \$6.50.

E-4—DWARF MUGHO PINE. A very hardy, dwarf, bushy and compact tree. Easily controlled by trimming. Will thrive in most any location. Requires but little space and is especially desirable for landscape planting and foreground position. Dark, rich green foliage with long, stiff needles. Twice transplanted. Price: 10 to 12 inches, 50c each, 2 trees for 90c. 12 to 18 inches, \$1.50, 2 trees for \$2.75. 50c per tree extra if wanted with ball of earth.

E-5—BLACK HILLS SPRUCE. An exceptionally fine Evergreen, extensively used for landscape planting, also for windbreak. This Evergreen belongs to the White Spruce family; grows very bushy, compact and symmetrical. Has unusually thick foliage and is easy to grow. We offer choice specimen trees with a well developed root system, twice transplanted. Price: 12 to 18 inches, 60c each, 2 trees for \$1.00. 18 to 24 inches, \$1.00 each, 2 trees for \$1.75. 2 to 3 feet, \$1.25 each, 2 trees for \$2.25. 3 to 4 feet, \$4.50 each, 2 trees for \$8.50.

E-6—COLORADO BLUE SPRUCE (Silver Blue). A most beautiful Evergreen from the Rocky Mountain district. Is perfectly hardy, with heavy foliage and short, stiff needles. Very symmetrical and graceful. The foliage is of a beautiful silver-blue color. Well rooted, and three times transplanted. Shipped with ball of earth and burlapped. Price: 18 to 24 inches, \$7.50 each, 2 trees for \$14.50. 2 to 3 feet, \$9.50 each, 2 trees for \$18.00.

E-7—COLORADO BLUE SPRUCE (Blue-Green Type). Belongs to the same family as the silver-blue variety though foliage is of a bluish-green. Very effective to plant for landscape work. Three and four times transplanted, well rooted trees, not balled and burlapped. Price: 18 to 24 inches, \$1.75 each, 2 trees for \$3.00. 2 to 3 feet, \$2.00 each, 2 trees for \$3.50.

Will ship any of the above specimen trees not so quoted, with ball of earth, 50c extra.

E-8—NORWAY SPRUCE. A magnificent ornamental Evergreen of compact habit—thick, interlacing branches and thick foliage. A very rapid grower, especially desirable for group planting on the lawn, also screen planting. It is easily sheared, and the foliage never discolors. Price: 10 specimens, twice transplanted, 18 to 24 inches, 75c each, 2 trees for \$1.40. 2 to 3 feet, three times transplanted, \$1.00 each, 2 trees for \$1.90. If wanted with ball of earth, 50c per tree additional. Windbreak Evergreens on page 33.

HARDY HEDGE PLANTS

JAPANESE BARBERRY (Thunbergi). Makes a dwarf growing, uniformly bushy and compact hedge. It grows from 2 to 3 ft. high and in autumn the foliage turns to crimson scarlet and bronze, with fire red berries. Price: 12 to 18 inches, field grown, 10 plants \$1.25, 100 plants \$11.85. 18 to 24 inches, 10 plants \$2.00, 100 plants \$17.80.

BUCKTHORN. A very hardy shrub. Covered with pretty white blossoms in the spring and red berries in the fall. Can be easily controlled by trimming. Price: 12 to 18 inches, field grown, 10 plants 75c, 50 plants \$5.85. 18 to 24 inches, 10 plants \$1.40, 100 plants \$11.85.

SPIREA VAN HOUTTEI. The well known hardy shrub which will thrive anywhere. Has clusters of white flowers in May. Price: Field grown plants, 18 to 24 inches, 10 plants \$1.00, 100 plants \$8.50. 2 to 3 feet, 10 plants \$1.75, 100 plants \$14.85.

CARAGANA. Perfectly hardy anywhere, producing racemes of yellow flowers in early spring. Foliage light green with silvery background. Price: 12 to 18 inch seedlings, 10 plants 75c, 100 plants \$4.00. 18 to 24 inches, 10 plants \$1.00, 100 plants \$6.85. 2 to 3 foot transplants, 10 plants \$1.25, 100 plants \$9.85.

AMERICAN ARBOR VITAE. Makes a very graceful hedge and can be easily controlled by trimming. Price: Twice transplanted stock, 12 to 18 inches, 10 plants \$1.50, 100 plants \$14.25. 18 to 24 inches, 10 plants \$2.25, 100 plants \$21.75.



Japanese Barberry Hedge.

HARDY PERENNIAL FLOWERS

Care of Perennials. A winter mulch or covering is essential in the Northwest. It will prevent damage from alternate thawing and freezing in the early spring.

Plants marked with a star (★) are suitable also for Rock Gardens.

★**ALPINE ROCK CRESS.** Pure white flowers produced in dense masses. Splendid for border or rockery.

★**ARTEMESIA, SILVER KING.** Silver foliage. Excellent for sprays and winter bouquets. Matures early—perfectly hardy. Each, 30c, 3 for 75c.

★**ASTER, NEW ENGLAND (Michaelmas Daisy).** Blooms throughout the autumn months. 3 to 4 feet high, purple flowers. Excellent for cutting.

★**BABY'S BREATH (Gypsophila).** Misty sprays of tiny white flowers, fine for cutting. Can be dried and used for winter bouquets.

★**BLUE BELLS OF SCOTLAND.** Clear blue flowers. Especially suited to rock gardens. About 12 inches high, blooms continuously.

★**BLUE FLAX.** A plant for border or rockery, 15 inches high. Graceful foliage. Flowers beautiful, pale blue.

★**BLEEDING HEART (Dielytra).** An old favorite, graceful sprays of pink and red heart-shaped flowers in May and June. Each 35c, 3 for 90c.

★**CARPATHIAN HAREBELL.** Compact plants growing about 8 inches high, with clear blue flowers. Bloom from June to October.

★**CHINESE LANTERN PLANT (Physalis Francheti).** Bears brilliant orange colored seed pods or "lanterns" in September.

★**COLUMBINE (Aquilegia).** Lacy, delicately formed foliage, and graceful, long spurred flowers. Splendid for the hardy border or rock garden.

★**HEUCHERA ROSEA (Coralbells).** Graceful sprays of coral red flowers on long slender stems. 12 to 18 inches tall, blooms from July to September. Each 30c, 4 for \$1.00.

★**DAISY, AUTUMN (Pyrethrum uliginosum).** Grows 3 to 4 feet high, with fern-like foliage and giant white flowers. Fine for cutting.

★**DAISY PAINTED (Pyrethrum hybridum).** Finely cut foliage, and handsome daisy-like flowers in all shades of pink, rose and crimson. Bloom in May and June.

★**DAISY, EARLY SHASTA.** Large white waxy daisies with yellow centers, on long stiff stems, in June and July.

★**DAY LILY (Hemerocallis).** Tall grass-like foliage and bright yellow flowers produced in clusters of 3 to 6 on tall, slender stems. Bloom in June and July.

★**FUNKIA LANCIFOLIA.** Produces an abundance of long, narrow leaves with blue flowers in August.

★**GAILLARDIA (Blanket Flower).** Flowers are a brilliant blending of red, yellow and brown. Bloom all summer. Unexcelled for cutting.

★**GARDEN PINKS, DOUBLE.** Lovely fragrant pink flowers—bloom until late fall.

★**HOLLYHOCKS.** Tall stately perennials, growing from 3 to 6 feet high. Has giant flower spikes in all colors.

★**LARKSPUR (Delphinium).** One of the showiest perennials, useful as a background for low growing plants. Grows 3 to 5 feet tall, with spikes of rich blue flowers in June and July.

★**MYOSOTIS (Forget-Me-Not).** Dainty blue flowers—fine for dwarf border or rock garden. Blooms May to September.

★**PHLOX, HARDY.** Beautiful hardy border plants, with clusters of crimson, pink and white flowers in July and August. 2 to 3 feet high. 25c each, 5 for \$1.00.

★**SWEET WILLIAM (Dianthus barbatus).** Blooms in June and July. Mixed colors, ranging from deep crimson to white. Plant in masses.

★**ROCK GARDEN SEDUM.** Charming plants for the rock garden. A variety of foliage and bloom, yellow, white and pink. Sedums are essential for a good rock garden.

★**VERONICA (True Blue).** Plants grow strong and upright, in dense clumps, producing thick spikes of intense blue flowers from July to September.

Price, except as noted: 25c each, 3 plants for 60c, plus 5c postage; 6 for \$1.00, plus 8c postage, 12 for \$1.75, plus 10c postage. Order at least 3 of a kind for best effect. We cannot accept orders for plants under 60c.

SHADE AND ORNAMENTAL TREES

S-1. CHINESE SIBERIAN ELM—THE OUTSTANDING TREE OF THE AGE—No other tree is in as great a demand at the present time as the Chinese Elm. It is the fastest growing, most satisfactory shade, ornamental or windbreak tree. The U. S. Department of Agriculture Bulletin 945, says—It is a rapid grower with slender, almost wiry branches; is one of the first trees to leaf out in the spring and the last to shed its leaves in the fall. Remarkably free from the usual plant diseases and insect injury so common to the Elm. It is very hardy and has proven valuable under greater varieties of climatic and soil conditions than any tree yet introduced. Its resistance to drought, alkali and extremes of temperature render it especially valuable. The Chinese Elm is adapted to any part of the United States. For windbreak or screen, its natural habit of branching from the ground if left untrimmed makes it especially desirable. It will thrive where other trees could never exist and will grow to a height of 60 feet, attaining a girth of 12 feet, though can be easily controlled by pruning. Luxurious shade may be enjoyed in just a few short years and some specimens have reached a height of 23 to 25 feet in four years, with a spread of 18 feet. (See page 28.)

S-2. AMERICAN ELM—The most popular of hardy native trees. Grows very tall, graceful and spreading, with drooping foliage. Always a favorite shade tree. Transplanted trees.

S-3. BIRCH, WEeping CUT LEAF—A very beautiful and ornamental tree with its cut leaf, drooping foliage. A fast grower and very showy with its white bark. A very popular tree for landscape planting.

S-4. BLACK WALNUT—A sturdy, long-lived, dependable shade tree that combines beauty with usefulness. The nuts from these trees are highly prized, especially for cakes and candies. A group of our Native Black Walnut Trees should be on every farm.

S-5. BUTTERNUT, OR WHITE WALNUT—A graceful, spreading tree that is valued for its tropical appearance and beautiful wood, as well as for its nuts. Perfectly hardy in the Northwest.

S-6. SILVER MAPLE—Because of its quick growth and good foliage, this tree is in big demand. The leaves appear early in spring, are bright green in color with the lower side silvery. Good for quick effect.

S-7. EUROPEAN MOUNTAIN ASH—Very fine for lawn planting and exceptionally showy with its large clusters of bright orange berries in Autumn. Beautiful dark green foliage, well shaped and very ornamental. Transplanted trees.

S-8. AMERICAN LINDEN, BASSWOOD—Valuable tree for street or lawn planting—a rapid grower and perfectly hardy. Grows in pyramidal form, has large leaves and fragrant flowers.

S-9. NORWAY POPLAR—An excellent shade tree—quick-growing, with spreading branches and straight, upright pyramidal head. Has large, thickly borne bright glossy foliage, very satisfactory and perfectly hardy. Transplanted trees.

S-10. LOMBARDY POPLAR—Very picturesque, tall growing tree. Used extensively for landscape effect, also in screen planting. A rapid grower. Transplanted trees.

S-11. GOLDEN WEeping WILLOW—(Niobe.) A golden-barked tree with graceful, drooping branches. The hardiest and most beautiful of all weeping trees. Introduced by Professor Hansen of Brookings, South Dakota. Plant a pair.

S-12. DOLGO CRAB—An ornamental fruit tree. Light green foliage—fire red fruit. Exceptionally hardy. The finest crab for jelly. In reality a dual purpose tree. See page 31.

S-13. WHITE BIRCH—A graceful tree with white bark—very desirable as a lawn tree. Best results for heavy soils or in sections having ample rainfall.



Double Row Chinese Elm Windbreak, 2 Years After Planting.

WHY CHINESE ELM IS THE GREATEST CONTRIBUTION TO HORTICULTURE IN YEARS

- 1—Because it is a tree of rare beauty—heavy dark green foliage and combines the beauty of the finest Elms with the gracefulness of the Cut Leaf Birch.
- 2—Because it is resistant to drought and cold—thrives on poor soil and makes progress in the face of neglect.
- 3—Because it is a tree of rapid growth—developing as rapidly as the Soft Maple or Cottonwood and generally making a growth of 8 to 10 feet in two growing seasons.
- 4—Because it holds its foliage until late in the fall.
- 5—Because Chinese Elm fulfills a long-felt want and promises to take first place among the shade or boulevard trees of America.

WINDBREAK TREES

CHINESE SIBERIAN ELM—GENUINE NORTHERN STRAIN

No farmer can afford to be without a shelter belt of these hardy, fast growing windbreak trees. Select the plants now while we have the sizes you want. Many of the old farm windbreaks are "up in the air"—the lower limbs and twigs are gone. Supplement your old windbreak with a row or two of our Northern Strain Chinese Siberian Elm—they grow twiggy and leafy and form a windbreak close to the ground. Many farmers are planting several rows of Chinese Siberian Elm, outside of the old windbreaks. It will stop the wind and snow from coming in around the buildings. Plant in double rows, 12 to 15 ft. apart, and 4 to 5 ft. apart in the rows.

NORWAY SPRUCE—This is a beautiful tree—one of the best Evergreens for hedges and windbreaks. Perfect pyramidal form.

ARBOR VITAE—Excellent for screen or hedge planting—a rapid grower—upright form and conical shape.

SCOTCH PINE—Very hardy and satisfactory windbreak or for landscape planting. Will grow to good size.

GOLDEN RUSSIAN WILLOW—Hardy, dependable—a fast grower.

PRICES—HARDY WINDBREAK TREES

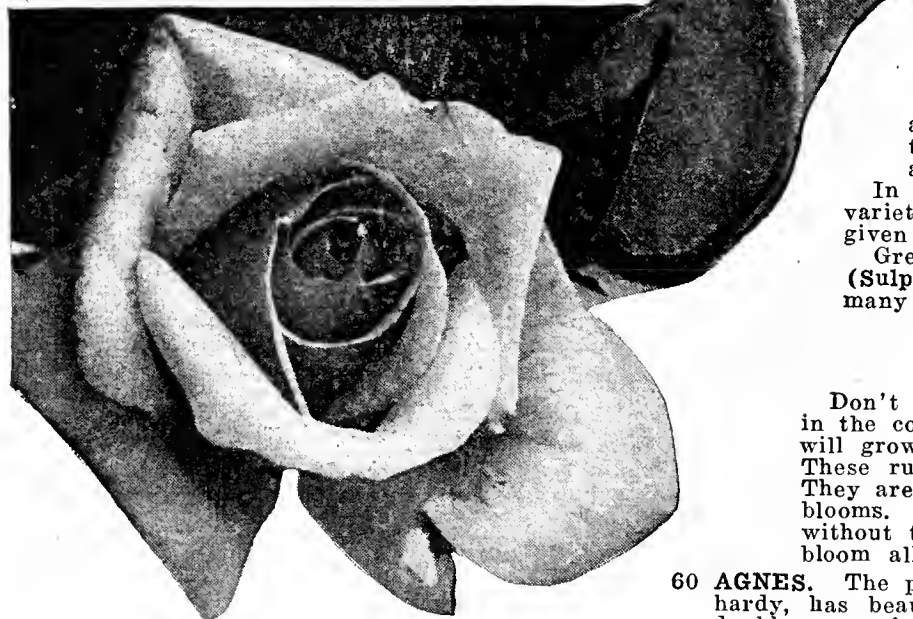
Chinese Siberian Elm (Northern Strain).		Per 10	Per 50	Per 100
Seedlings	12-18 in.		\$ 1.20	\$ 1.95
Seedlings	18-24 in.	\$0.65	1.50	2.70
Seedlings	2-3 ft.	.80	2.25	4.40
Transplants	3-4 ft.	1.60	7.35	14.35
Transplants	4-5 ft.	2.45	9.85	19.35
(For 500 or more, write for prices.)				
Golden Russian Willow		18-24 in.	\$ 1.90	\$ 3.60
		2-3 ft.	2.45	4.35
Norway Spruce (Transplanted Trees.)		12-18 in.	5.85	10.35
		18-24 in.	\$2.35	6.85
American Arbor Vitae (Transplanted Trees)		12-18 in.	1.50	7.35
		18-24 in.	2.25	11.30
		2-3 ft.	4.90	23.85
Scotch Pine (Transplanted Trees)		12-18 in.	1.75	7.40
		18-24 in.	3.15	14.35

For windbreak purposes it is advisable to plant in double or triple rows. Have the rows 12 to 15 ft. apart and trees 4 to 5 ft. apart.

PRICES—TRANSPLANTED SHADE TREES

		Each	10 Trees
S-1.	Chinese Siberian Elm (Northern Strain)	3-4 ft. \$0.25	\$1.85
	(Write for prices on larger quantities.)	4-5 ft. .30	2.45
		5-6 ft. .40	3.45
		6-8 ft. .50	4.30
S-2.	American Elm	5-6 ft. .55	4.45
		6-8 ft. .60	5.45
		8-10 ft. 1.00	9.10
S-3.	Birch, Weeping Cut Leaf	5-6 ft. 2.30	
S-4.	Black Walnut	4-5 ft. .40	3.20
		5-6 ft. .50	3.95
S-5.	Butternut	4-5 ft. .40	2.50
		5-6 ft. .50	3.95
S-6.	Silver Maple	5-6 ft. .55	4.95
		6-8 ft. .60	5.45
S-7.	European Mountain Ash	5-6 ft. .95	
S-8.	American Linden	6-8 ft. 1.00	
S-9.	Norway Poplar	5-6 ft. .35	2.45
		6-8 ft. .50	3.95
S-10.	Lombardy Poplar	5-6 ft. .45	3.45
		6-8 ft. .50	4.45
S-11.	Golden Weeping Willow	5-6 ft. .85	
		6-8 ft. 1.25	
S-12.	Dolgo Crab	5-7 ft. 1.00	
S-13.	White Birch	5-7 ft. .65	
		6-8 ft. .75	

Hardest Garden Roses



Pink Radiance.

CLIMBING ROSES

- 65 **CRIMSON RAMBLER.** An extremely hardy climbing Rose; large, crimson flowers; double. 2-yr. bushes 27c each, 2 for 50c, postpaid.
- 66 **PAUL'S SCARLET CLIMBER.** Considered the finest of Climbing Roses—intense scarlet flowers, never fading in the hot sun. Blooms semi-double, and much larger than Crimson Rambler. Very hardy and vigorous grower—an outstanding variety. 2-yr. field-grown plants 35c each, 2 for 65c, prepaid.
- 67 **DOROTHY PERKINS.** Delicate light pink Rose in clusters; deep, glossy foliage. Fine for trellis and fences. 2-yr. bushes 27c each, 2 for 50c, postpaid.
- 68 **GARDENIA.** Yellow Rambler; blooms early and very freely; glossy foliage. Flowers very fragrant. Perfectly hardy. 2-yr. bushes 30c each, 2 for 55c, postpaid.

PRIZE-WINNER ROSE COLLECTION

6 Beautiful Roses, including 2 Climbers—one each: Sir Thomas Lipton, Hansa, Gen. Jack, Princess Adelaide, Crimson Rambler (Climber), Paul's Scarlet (Climber). (Value \$1.87), prepaid.

All 6 for \$1.55

NEW FRENCH HYBRID LILACS

Marvelous, new French Hybrid Lilacs have been brought out recently. They are distinctly beautiful, of rich delicate hues—flowers of large size and delightfully fragrant. The new Hybrids bloom exceptionally early—even when but two feet high in the nursery row. We offer hardy, northern grown stock, on their own roots. Prices are now within the reach of all.

ALPHONSE LAVALLE.

One of the choicest—producing very double flowers of a soft blue shade. A rapid grower and most satisfactory. 3-yr.-old field-grown plants 50c each; 4-yr.-old plants 70c each, not prepaid.

BELLE DE NANCY.

Producing large double flowers of a charming pinkish tint. 3-yr.-old field-grown plants 50c each; 4-yr.-old plants 70c each, not prepaid.

MADAME LEMOINE.

One of the finest, double white varieties—producing immense clusters. 3-yr.-old field-grown plants 50c; 4-yr.-old plants 70c each, not prepaid.

LUDWIG SPAETH.

Produces long panicles of dark purplish-violet color. Most beautiful and fragrant. 3-yr.-old field-grown plants 50c each; 4-yr.-old plants 70c each, not prepaid.

F. S. & N. Co. Herbster, Wis., May 10, 1932.
I thank you very much for the good, healthy trees received from you. Next spring we expect to place a larger order. A large part of our present orchard came from the Farmer Seed & Nursery Co. years ago.
Daniel J. Buckley.

F. S. & N. Co. River Falls, Wis., July 5, 1932.
I ordered 50 Chinese Elm from your company three years ago and I am very proud of them—they have made wonderful growth in spite of the drought of the past two seasons.
Walter E. Swenson, R. 1.

The Rose is the queen of all flowers—its beauty, daintiness, and fragrance appeal to all flower lovers. The list of Roses offered below will make it possible for everyone, even in the severe Northwest, to enjoy their beauty and charm.

The greatest care was used in making the selections we offer you—they are the very best from many hundred varieties. Do not confuse them, therefore, with the tender kinds offered at cheap prices that usually disappoint. We offer 2-year field-grown plants.

In planting, it is advisable to cut back Roses about one-third. Non-hardy varieties should have tops tied up with straw or burlap and added protection given with straw, leaves or strawy manure.

Green aphid or lice on Roses may be controlled by the use of Black Leaf 40 (Sulphate of Nicotine), also Kalolil, Acme Aphid Spray and Evergreen will control many insects. These are described on page 73.

ROSA RUGOSA—Eskimo Beauties

Don't let any one discourage you from growing these beautiful, hardy Roses, even in the cold, bleak climate of the Dakotas, northern Minnesota and Wisconsin. They will grow where no other Roses can hope to thrive, and without winter protection. These rugged shrub-like plants make excellent hedges, borders or group plantings. They are not subject to disease and produce an abundance of large double, fragrant blooms. In time, they will reach a height of four to six feet. No home should be without them, and for cemetery planting, there is nothing more dependable, as they bloom all season.

- 60 **AGNES.** The popular, large, double yellow Rose. This outstanding new Rose is perfectly hardy, has beautiful foliage and produces blooms of a rich orange-gold color—large and double—very fragrant. This Rose was produced by crossing of the Persian Yellow and the Japanese Rugosa Rose. 2-yr. field-grown plants 60c each, 2 for \$1.00, prepaid.
- 61 **GROOTENDORST.** A carnation red Rose that will bloom throughout the summer, producing large clusters of double blooms. These bushy, vigorous plants are ideal for specimen planting or hedge purposes. 2-yr. field-grown plants 35c each, 2 for 65c, prepaid.
- 62 **HANSA.** A vigorous grower, producing handsome, large double blossoms of deep, rich red. One of the best of the Rugosas. 2-yr. field-grown plants 30c each, 2 for 45c, 10 for \$2.00, prepaid.
- 63 **SARAH VAN FLEET.** One of the hardest, clear pink varieties, very free bloomer—intensely fragrant. Foliage dark green. Disease resistant. 2-yr. field-grown plants 40c each, 2 for 75c, prepaid.
- 64 **SIR THOMAS LIPTON.** An early free-flowering, beautiful snow-white Rose. Flowers are very double and borne in graceful clusters. 2-yr. field-grown plants 30c each, 2 for 45c, prepaid.
- 60-B **AMELIA GRAVEREAU.** One of the finest Hybrid Rugosas—bright red flowers, greatly resembling Tea Roses—very fragrant. 2-yr. field-grown plants 35c each, 2 for 65c, prepaid.

SPECIAL ROSE VARIETIES

- 69 **GENERAL JACQUEMINOT.** Hybrid Perpetual. A universal favorite. Very fragrant; perfectly formed blossoms; brilliant scarlet-crimson color. Long stems. Very hardy. Need winter protection. 2-yr. bushes 35c each, 2 for 65c, postpaid.
- 70 **PINK RADIANCE.** Brilliant rosy carmine shaded with pink. Large flowers, fine form, a constant bloomer and excellent keeper. 2-yr. bushes 35c each, 2 for 65c, postpaid.
- 71 **FRAU KARL DRUSCHKE.** The White American Beauty—a pure white, long stemmed, double-flowered Rose. It produces immense buds and is the finest Rose of its class for cutting or bedding. 2-yr. bushes 35c each, 2 for 65c, postpaid.
- 72 **PRINCESS ADELAIDE.** Perfectly hardy without winter protection. Color, bright silvery pink; flowers exceptionally large. A profuse bloomer and one of the very best Moss Roses. 2-yr. bushes 30c each, 2 for 55c, postpaid.
- 73 **CRIMSON BABY RAMBLER.** Produces large clusters of small, double, bright red flowers. Blooms profusely; very hardy. 2-yr. bushes 35c each, 2 for 65c, postpaid.

THE HARDEST CLIMBING VINES

BITTERSWEET.

A much appreciated native climber that is almost extinct in its natural state. Has handsome glossy foliage. Large clusters of beautiful orange-crimson berries which will remain all winter. The berries are very bright in effect and make a charming decoration for the home in winter. Very hardy—will grow anywhere. Grow Bittersweet in your own back yard. Price: 2-yr. field-grown 50c each, 2 plants for 90c, prepaid.

SCARLET TRUMPET HONEYSUCKLE.

A very satisfactory climbing plant with odd-shaped foliage, producing bright red trumpet-shape flowers almost continuously. Very fragrant. Will thrive anywhere. Splendid for covering porches or trellis where it will reach a height of 15 feet. Price: 2-yr. vines 30c each, 2 vines 50c, prepaid.

ENGLEMAN IVY (*Ampelopsis*).

Belongs to the Woodbine family and is most popular in the Northwest for climbing on stone, brick or stucco. Produces very thick foliage which turns to a brilliant red color in the fall. Its numerous tendrils cause it to cling to any structure. Is perfectly hardy and will withstand drought and heat. Very fast grower. Price: 2-yr. vines 30c each, 5 vines \$1.35, prepaid.

CLEMATIS PANICULATA.

Small white flowering, very sweet scented plants, originally from Japan. A rapid grower and vigorous climber. This is the most satisfactory variety of Clematis on account of its hardiness. Price: 2-yr. vines 45c each, 2 vines 80c, prepaid.

CLEMATIS JACKMANII.

The most beautiful and showy Clematis with deep velvety purple flowers. A profuse bloomer—strong hardy plant and a rapid grower. Should be pruned early in spring. Price: 2-yr. vines \$1.10 each, prepaid.

GORGEOUS PEONIES

From America's Peony Capital

The Peony is the ideal flower for the Northwest, as it is absolutely hardy and even the rose cannot excel it in coloring, beauty and fragrance. A few choice peonies will transform your home yard or garden into a source of real pleasure, and they will increase in beauty year after year.

Culture—Set the roots so that the eyes are 2 to 2½ inches below the surface. Press the soil down firmly, being careful not to injure the buds. Allow a spacing of 3 feet between plants. Peonies prefer an open sunny position.

We offer strong field-grown stock with 3-5 eye divisions.

White Shades

BARONESS SCHROEDER (Midseason) One of the finest peonies grown. Buds are a delicate blush, but flowers open a pure milky white. Very large and fragrant. Each 75c, prepaid.

ENCHANTRESSE (Late) Large creamy white flowers with crimson tracings. Come into bloom after most other peonies have gone. Prolong the blooming season by adding this charming variety to your collection. Each \$1.15, prepaid.

FESTIVA MAXIMA (Early) Flowers are of the true rose type, with great broad guard petals surrounding large compact center petals delicately flaked with crimson. Each 45c, prepaid.

Pink Shades

EDULIS SUPERBA (Early) Very large flowers of a beautiful deep rose-pink. Sometimes open for Decoration Day here in Minnesota, making it an invaluable variety for cutting. Each 65c, prepaid.

FARIBAUT (Late) Deep rose-pink with a silvery reflex. Center petals are silver tipped. Very free flowering, with long strong stems, extra fine for cutting. Has a delicate and pleasing fragrance. Each 65c, prepaid.

MARIE CROUSSE (Late) Delicate shell-pink, bordering on salmon. Distinct in color from any other pink. Fragrant. The stems are stiff and upright. Each 65c, prepaid.

MONS. JULES ELIE (Early) An exquisitely lovely self-colored flesh-pink peony shading deeper toward the base of the petals. Resembles a giant pink chrysanthemum. One of the largest and most beautiful of all peonies. Each 75c, prepaid.

SARAH BERNHARDT (Late) A lovely apple blossom pink, with each petal silver tipped. Flowers are of the semi-rose type, very large and fragrant. This beautiful peony should be in every garden. Each 65c, prepaid.

SOUVENIR DE LOUIS BIGOT (Midseason) Salmon-pink. A flower of wonderful coloring and exquisite beauty. Splendid for show purposes or home decorations. Each \$1.15, prepaid.

THERESE (Midseason) Pale pink, with a golden yellow glow in the depths of the petals. Remarkably lovely, and a splendid flower for exhibition purposes. Each \$1.15, prepaid.

Red Shades

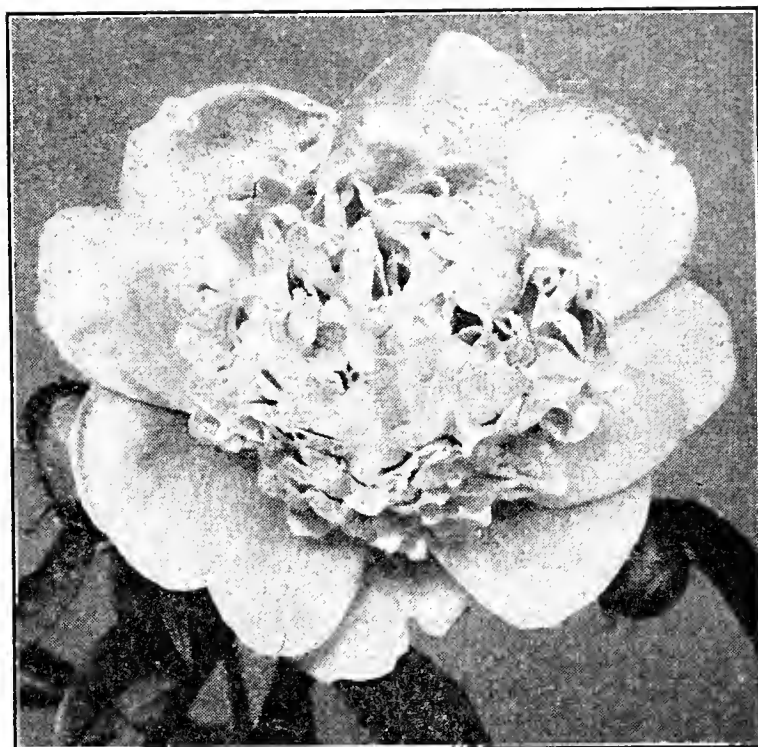
BRAND'S MAGNIFICENT (Late) A very deep dark red. This variety is noted for its beautiful form, prolific bloom, broad symmetrical petals, and excellent color. Each \$1.00, prepaid.

FELIX CROUSSE (Late) A deep rose-red of perfect globe form. Fragrant. A profuse bloomer, and invariably among the winners in the show room. Each 65c, prepaid.

LONGFELLOW (Midseason) A beautiful bright red with cherry tones. Considered one of the best reds, as it neither fades nor turns dark. Unexcelled as a landscape variety. Each \$1.00, prepaid.

MARY BRAND (Midseason) Immense deep red flowers with a wonderful silken sheen. Delightfully fragrant. Very free flowering, with many of the stems bearing 3 or 4 large blossoms. Each 75c, prepaid.

RICHARD CARVEL (Early) The best of all early reds. Has a pleasing fragrance rarely found in red varieties. Plants are tall and strong and most effective for landscape work. Flowers are large and bomb-shaped. Each \$1.25, prepaid.



Sarah Bernhardt—Apple blossom pink.

ANOMALE. NEW SINGLE FERN-LEAF PEONY

Very early, blooms by Decoration Day. The flowers are a beautiful shade of rose-red, single and very large. They are born on strong stiff stems. The foliage is finely cut and distinctly different from that of all other peonies. Our stock is very limited and we advise you to order at once. This variety cannot be safely planted until fall, and delivery will be made at proper planting time. Each \$1.85, prepaid.

SPECIAL PEONY OFFERS

Our Popular Collection

Includes three fine varieties and colors (our selection) all labeled and true to name. **\$1.00 Ppd.**

Long Season Collection

1 Edulis Superba. Early. Deep rose-pink.
1 Baroness Schroeder. Midseason. White.
1 Felix Crousse. Late. Brilliant ruby-red. **\$1.65 Ppd.**

Superb Prize Collection

1 Enchantresse. Exquisite creamy white.
1 Mons. Jules Elie. Lovely flesh-pink.
1 Longfellow. Bright cherry-red. **\$2.50 Ppd.**

EXQUISITE IRIS

Rivaling the Orchid in Beauty

Your garden can never be complete without this beautiful flower. It requires little attention, flourishes in a variety of soils, and blooms delightfully year after year.

Culture—Iris prefer a well drained sunny position. Place the bulb or rhizome so that it is close to the surface and the roots are just deep enough to be covered with soil. Avoid manure as a fertilizer.

AMBASSADEUR. Standards reddish-violet; falls velvety purple maroon. Extra fine.

APACHE. Indian red. A new and interesting color. Strikingly beautiful.

DUKE OF YORK. An unusually fine iris of a clear lavender-blue color with a striking orange beard.

FLAMMENSCHWERT. Standards bright Empire yellow; falls rich deep brown with intense yellow border.

GOLD IMPERIAL. Clear golden yellow. Plant with Zanardalia for beautiful color effect.

LORD OF JUNE. Standards light lavender-blue; falls lavender-violet. Immense flowers.

MADAME CHEREAU Pure white with a frilled edge of clear blue.

MILDRED PRESBY. Standards white; falls rich velvety pansy-violet, edged lavender-white. Large flowers of clear coloring.

MORNING SPLENDOR. Standards petunia-violet; falls velvety purple. General effect rich crimson. Fragrant.

SEMINOLE. A rich velvety crimson with frilled petals. The best iris of its color.

SHEKINAH. Delicate yellow, deepening to amber in throat. Orange beard.

SOUVENIR DE MME. GAUDICHAU. Deep velvety purple. Tall, early and very distinct.

SUSAN BLISS. Orchid-pink flowers of perfect form and rare beauty.

TAJ MAHAL. The best white. Of fine shape and great substance borne on tall well-branched stems. A vigorous grower.

ZANARDALIA. The best clear blue iris. Very beautiful and striking.



Iris are most effective when planted three of a kind in a clump.

German Iris.

Price of any of the above splendid named varieties: 20c each; \$1.00 per six; \$1.75 per doz.; \$14.00 per 100, prepaid. Ready for shipment in May.

Beautiful Home Grounds Really Cost You Nothing



Each Tree, Shrub, Plant and Vine adds far more to the value of your home than its small cost.

There is no better investment—it pays dividends in cash and happiness. Let us help you select just the right variety for each location. Note the Shrubs shown in colors on opposite page. Make your selection now.

A 10% SPECIAL DISCOUNT

On Shrub orders totaling \$5.00 or over—collections or other premiums excluded.

Allow for postage on shrubs: 10c for 1-2 shrubs, 15c for 3-4 shrubs, 20c for 5-6 shrubs, to Third Zone ONLY. Larger shipments will be sent by express.

THE BEST VARIETIES OF HARDY SHRUBS FOR HOME OR LANDSCAPE PLANTING

Plant dwarf shrubs (marked D.) about 1-2 ft. apart. Medium shrubs (marked M.) about 2-3 ft. apart and large shrubs (marked L.) about 3-4 ft. apart. All shrubs are guaranteed to reach destination in best condition and are bound to grow.

1. **BARBERRY THUNBERGI.** D. (Japanese.) Very attractive and showy during the entire season and particularly in late fall when it turns to a gorgeous orange and scarlet. Beautiful red berries in winter. Not subject to rust. Prices: 3 yr. field grown plants 20c, 4 yr. field grown plants 30c each.

2. **BARBERRY, RED-LEAVED.** D. The showiest, most attractive shrub of all with its glowing red foliage. It is perfectly hardy, absolutely rust-proof. Has the same graceful foliage as the Japanese and does best in sunlight. Supply limited. Prices: 2 yr. field grown plants 25c, 3 yr. 35c each.

3. **FLOWERING CRAB, BECHTEL'S.** L. Very ornamental shrub with delicate pink flowers, maturing in late May. Very fragrant—perfectly hardy and a profuse bloomer. Excellent as a specimen tree for landscaping or cemetery planting. Prices: 3 yr. plants 60c, 4 yr. plants 80c.

4. **COTONEASTER.** M. A splendid new shrub, used extensively in modern landscape plantings. Luxuriant dark green foliage—small pink flowers. Black fruits remaining on bushes into the winter. Extremely hardy and drought resistant. Prices: 3 yr. field grown plants 35c, 4 yr. 45c.

5. **CRANBERRY, HIGH BUSH.** L. A hardy shrub, vigorous grower with soft white flowers in spring. In fall it produces clusters of yellow and deep red berries that remain until frost. These berries make excellent jelly and jam. High Bush Cranberry will do well on the north side of the building and is very much used for background planting. Prices: 3 yr. field grown plants 45c, 4 yr. 55c.

6. **DOGWOOD, RED-TWIGGED.** L. Has yellowish-white flowers. Bright red branches and creamy white fruit. Will do well in shade and forms a fine contrast in any landscape planting. Always showy in winter. A rapid grower, attaining great height unless trimmed. Prices: 3 yr. field grown plants 25c, 4 yr. 40c.

7. **ELDER, GOLDEN.** L. A very showy golden leaved bush; extremely hardy. A rapid grower—may be trimmed to any desired height. Produces large, flat white blossoms, followed by red-purplish berries in late summer. Prices: 3 yr. field grown plants 30c, 4 yr. 45c each.

8. **HONEYSUCKLE, RED BUSH.** (Tartarian.) L. Blooms in May followed by bright red berries throughout the summer. Good for foundation and screen plantings. Prices: 3 yr. field grown plants 25c, 10 for \$2.15.

9. **HYDRANGEA ARBORESCENS.** (Snowball Hydrangea.) M. Valuable for landscape planting. Large globe-shaped flowers. White, tinged a delicate pink. Blooms during September and October. Prices: 3 yr. field grown plants 30c, 4 yr. 45c.

10. **HYDRANGEA PANICULATA GRANDIFLORA.** M. Very showy, with immense clusters of white; blooms in August. Will blossom same season they are planted. Prices: 3 yr. field grown plants 30c, 4 yr. 45c.

11. **LILAC, FRENCH HYBRIDS.** L. (See page 34.)

12. **LILAC PERSIAN.** L. Blooms more freely on younger bushes than common Lilac. Very fragrant. Flowers deep purple. Fine for high foundation and screen planting. Prices: 3 yr. field grown plants 40c, 4 yr. 60c.

13. **PURPLE LEAF CISTENA.** M. A new shrub introduced by Prof. Hansen of the South Dakota College. Very striking purple foliage—fine color effect. Used in landscape plantings. Very hardy, dwarf and compact. A showy shrub desirable in any landscape. Prices: 3 yr. field grown plants 30c, 4 yr. 45c.

14. **ROSE TREE OF CHINA.** (Prunus Triloba.) M. Without question the most striking flowering shrub for early spring. Every branch completely covered with small double, rose-like, pink flowers in May, before the leaves are out. Prices: 3-4 ft. field grown plants 40c, 4-5 ft. 60c.

15. **SNOWBERRY, WHITE.** D. A very desirable dwarf shrub, perfectly hardy. Has tiny rose colored flowers in June and July, followed by milk-white clusters of berries in late fall and winter. Does well in sun or shade. Prices: 3 yr. plants 25c, 4 yr. plants 35c.

16. **SPIREA ANTHONY WATERER.** D. Has gay crimson flowers that bloom all summer, and variegated foliage. Is very hardy. This dwarf shrub will fit into any plan and always proves attractive. Prices: 3 yr. field grown plants 25c, 4 yr. 30c.

17. **SNOW GARLAND SPIREA.** (Arguta.) M. The earliest blooming Spirea, growing 5 ft. tall. Slender and graceful form with delicate leaves. Pure white flowers are produced in great profusion. Prices: 3 yr. field grown plants 30c, 4 yr. 40c.

18. **SPIREA BILLARDI.** M. Plume-like flowers of delicate rose; upright growth. Medium height. Fine foliage. Prices: 3 yr. field grown plants 25c, 4 yr. 30c.

19. **SPIREA FROEBELI.** D. Very fine, dwarf shrub, covered from July to September with a mass of bright rose-colored flowers. Excellent for low foundations and in front of other shrubs. Prices: 3 yr. field grown plants 20c, 4 yr. 25c.

20. **SPIREA VAN HOUTTEI.** (Bridal Wreath.) M. Most popular of all shrubs—very hardy—blossoms profusely in May. Prices: 3 yr. size 20c, 4 yr. size 30c.

21. **SYRINGA.** (Mock Orange.) L. A tall hardy bush bearing beautiful white flowers that resemble orange blossoms, in great profusion. They are fine for cutting and exquisitely fragrant. Used for background, screen planting or grouping. Attractive foliage. Prices: 3 yr. field grown plants 25c, 4 yr. 30c.

Shrubs For Various Purposes Or Locations

For the North Side and Shady Places:

Japanese Barberry.
Dogwood.
Hydrangea Arborescens.
Syringa.
High Bush Cranberry.
Red and White Snowberry.
Cotoneaster.

For Background or Screen Hedge:

Bush Honeysuckle.
Spirea Van Houttei.
Lilacs.
Syringa.
Golden Elder.
Cotoneaster.
Purple Leaf Cistena.

For Foreground:

Japanese Barberry.
Spirea Anthony Waterer.
Spirea Froebeli.
Spirea Billardi.

For Background:

Snowberry.
Spirea Van Houttei.
Hydrangea.
Honeysuckle.
Syringa.
French Lilacs.
Cotoneaster.

For Winter Effect:

Japanese Barberry.
Bush Honeysuckle.
High Bush Cranberry.
Snowberry.
Dogwood.

ROCK GARDENS AND LILY POOLS

Rock gardens, lily pools and outdoor living rooms are all the vogue. The entire nation is awakening to a new sense of beauty—so much neglected in the past. Most any yard may be transformed into a lovely, restful retreat and may include an outdoor living room or playground for the children. Such features as a rock garden or lily pool are very desirable and you don't need a slope or terrace to make them possible.

We will gladly assist you in your planting. Our special circular, "How to Make a Rock Garden," will be sent free.

Evergreens for background plantings, Perennials and Rock Garden Plants can be found on page 32.

HARDY WATER LILIES FOR POOLS

We offer the less expensive varieties, most easily grown. Directions with each shipment. Shipments April 15 to June 15.

ODORATO, Hardy White. Native American Water Lily—a vigorous, prolific grower—flowers pure white. Best variety for experimenting. Order not less than three for best results. Prices: 50c each, 3 for \$1.00, 6 for \$1.75, prepaid.

MEXICANA, Hardy Yellow. One of the most dependable varieties. Flowers are beautiful light yellow, size 3 to 4 inches; leaves are dark green. Prices: 60c each, 3 for \$1.50, prepaid.

ROSE ABEY, Hardy Deep Pink. Pointed petals, a steady bloomer, large flowers. Prices: \$1.85 each, 2 for \$3.50, prepaid.

HELEN FOWLER, Hardy Deep Pink. Very beautiful. Prices: \$1.25 each, 2 for \$2.25, prepaid.

WATER HYACINTH. Tropical Water Plant. A necessary plant for pools. 3 for 50c, 6 for 80c, 12 for \$1.40, prepaid.

Special Shrub Offer, One Year Size, 15c Each

We offer one year field grown shrubs 12-24 inch, in the following varieties: Spirea Van Houttei, Japanese Barberry, Cotoneaster, Honeysuckle, Snowberry, at 15c each, 10 for \$1.20. Hydrangea Paniculata Grandiflora 20c each, 10 for \$1.80. Not prepaid.



Climbing Rose
Spirea Arguta
(Snow Garland)

Hydrangea P. G.
Spirea
Anthony Waterer

High Bush
Cranberry
Spirea Froeheli

Descriptions
on Opposite
Page

Golden Elder
Barberry,
Red Leaved

Honeysuckle, Bush
Snowberry, White
Hydrangea

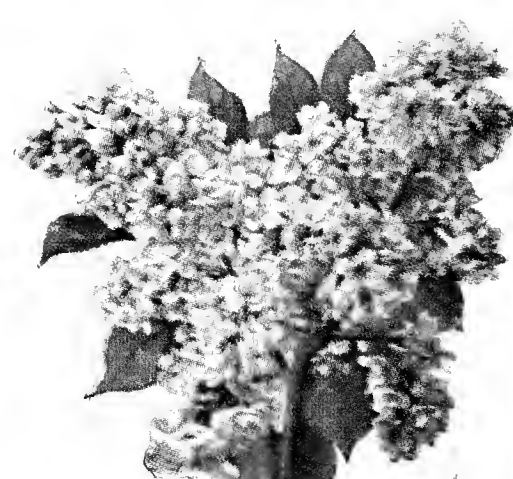
Spirea Van Houttei
Arborescens



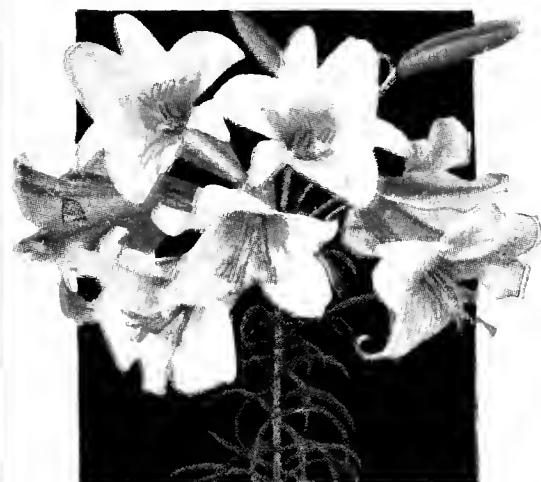
GIANT HYBRID AMARYLLIS
40c each—3 for \$1.00—Page 41



"FARIBAULT" PEONY—65c Each—(Page 35)



ALPHONSE LAVALLE—LILAC
3 yr. 50c; 4 yr. 70c. Not prepaid—Page 34



REGAL LILIES
25c each—5 for \$1.00—Page 41

OUR BIG 5 SHRUB COLLECTION

- | | |
|-------------------------|----------------------|
| 1—Hydrangea P. G. | 1—Spirea Van Houttei |
| 1—Hydrangea Arborescens | 1—Spirea Billardi |
| 1—Japanese Barberry | |

5—3-year size Shrubs—\$1.15 Prepaid

OUR BIG TEN COLLECTION

- | | |
|-------------------------|-----------------------|
| 2—Spirea Van Houttei | 1—Golden Elder |
| 2—Spirea A. Waterer | 1—Red Leaved Barberry |
| 1—Hydrangea, P. G. | 2—French Lilacs, |
| 1—Hydrangea Arborescens | Red and White |

All for \$2.65—Not prepaid—Value \$3.05



HANSA—DOUBLE RED ROSE
30c each—2 for 45c—Page 34



BLUE RIBBON COLLECTION—15 Choice Glads.—45c Prepaid—(Page 42)

HOME GARDEN FRUIT TREE COLLECTION

The Choicest of the
Hardy Fruits
for the Northwest

- 1—Summer Apple—Anoka
- 2—Winter Apples — Haralson
and McIntosh
- 2—Blue Plums—Opata and Sapa
- 3—Red Plums — Underwood —
Fiebing Prize and Superior
- 2—Cherries—Nicollet and Zumbra
- 2—Pears—Patten and Tait

Quotations F.O.B. Faribault

HARALSON
THE BIG RED WINTER APPLE
See Page 31

OPATA PLUM
See Page 31

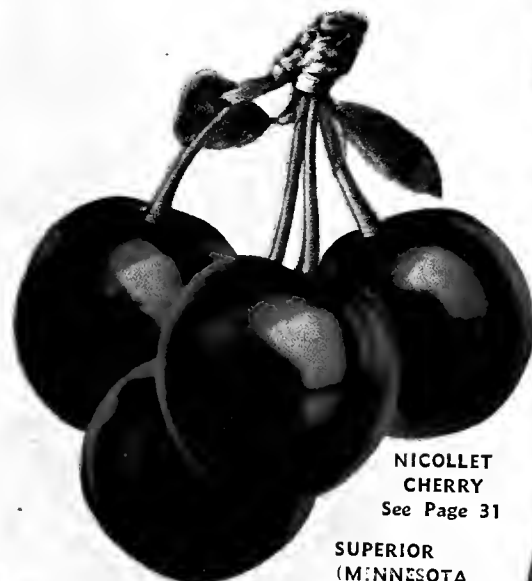
SAPA PLUM
See Page 31

JUST A FEW DOLLARS
WILL START AN OR-
CHARD THIS YEAR.

THESE 12 OUTSTANDING FRUIT TREES

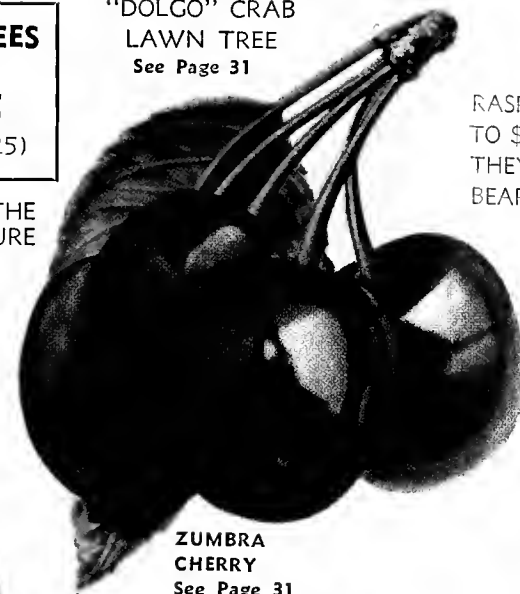
3-4 ft.	4-5 ft.	5-6 ft.
\$4.45	\$5.40	\$6.55
(Value \$5.15)	(Value \$6.10)	(Value \$7.25)

TURN SPARE TIME INTO MONEY—GROW THE
NEW FRUITS AND BERRIES—A GOOD FUTURE
AWAITS FRUIT GROWERS IN THE N. W.



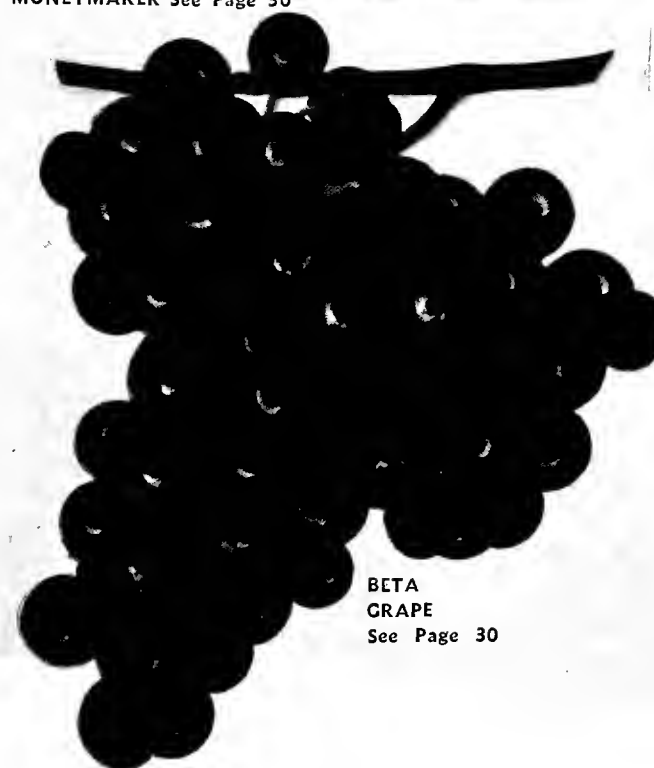
**NICOLLET
CHERRY**
See Page 31

**SUPERIOR
(MINNESOTA
No. 194) PLUM**
See Page 31



**ZUMBRA
CHERRY**
See Page 31

**FIEBING
PLUM**
See Page 31



**BETA
GRAPE**
See Page 30

**UNDERWOOD
PLUM**
See Page 31

**ANOKA
THE SURPRISE
APPLE**
PAGE 31

FREE—A
"DOLGO" CRAB
LAWN TREE
See Page 31

RASPBERRIES "PAY UP
TO \$1000.00 PER ACRE.
THEY GROW FAST AND
BEAR YOUNG.



**LATHAM
RASPBERRY**
A BIG MONEYMAKER See Page 30

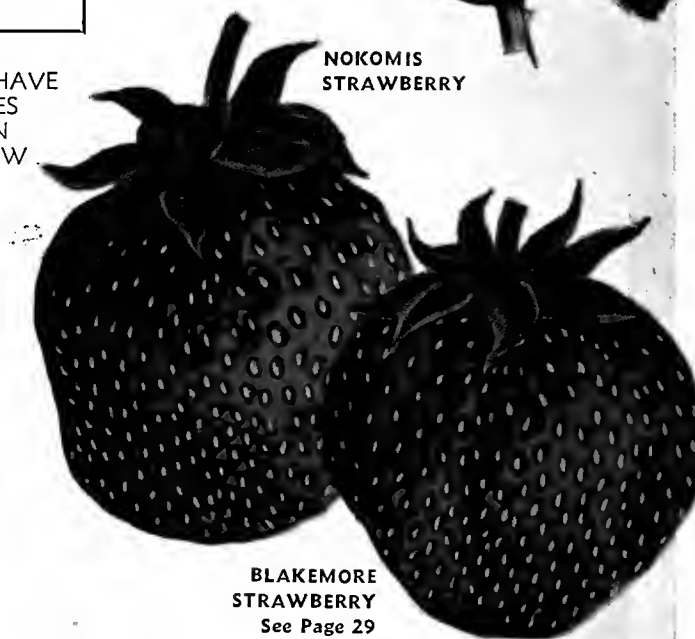
**CHIEF
EARLIEST
NEW RASPBERRY**
Page 30

FAMILY GARDEN FRUIT COLLECTION

- 25—Early Chief Red Raspberries
- 25—Big Latham Red Raspberries
- 25—Cumberland Black Raspberries
- 10—Beta Grapes
- 50—Blakemore Strawberries
- 50—Nokomis Strawberries

The Entire Collection **\$4.65**
for only (Value \$6.15)
Not Prepaid

NEVER HAVE
PRICES
BEEN
SO LOW.



**BLAKEMORE
STRAWBERRY**
See Page 29

**NOKOMIS
STRAWBERRY**

**CUMBERLAND
RASPBERRY**
Page 30

Northern grown on northern roots—
cost no more than tender trees grown
in the south and central states. A
cold climate develops hardy trees.
Your future success depends upon
your wise choice at
time of planting.

AN ACRE
IN FRUIT
BEATS
40 ACRES
IN WHEAT.

**HARDY
PATTEN
PEAR**
Page 30



— NEW DELIGHTS FOR FLOWER LOVERS —



CALIFORNIA SUNSHINE ASTERS
No. 1169. Pkt., 15c—Page 47

—1933—
Flower Novelty Collection
Eight beautiful annuals that will thrive under ordinary garden conditions and provide flowers to enjoy from early summer until frost.

One pkt. each of 8 varieties on this page for.....
(Value \$1.20)

90c
PREPAID

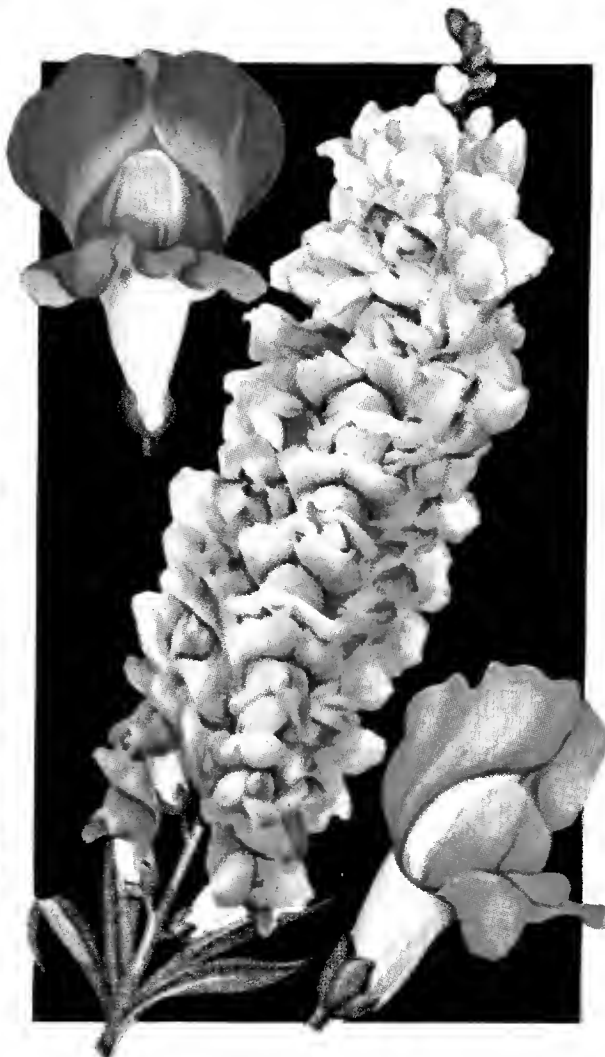
May Also Be Ordered Through Your Dealer.



RUFFLED GIANT PETUNIAS
No. 1655. Pkt., 25c—Page 53



GOLDEN GLEAN NASTURTIUMS
No. 1570. Pkt., 20c—Page 52



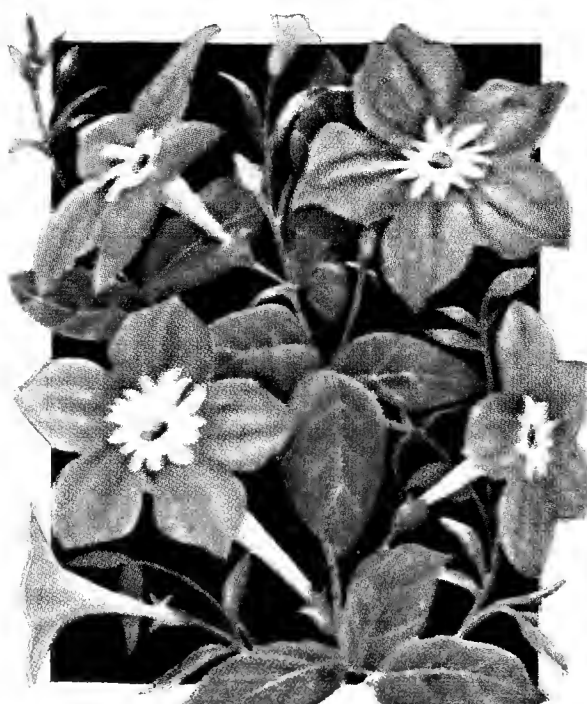
GIANT MIXED SNAPDRAGONS
No. 1054. Pkt., 10c—Page 46



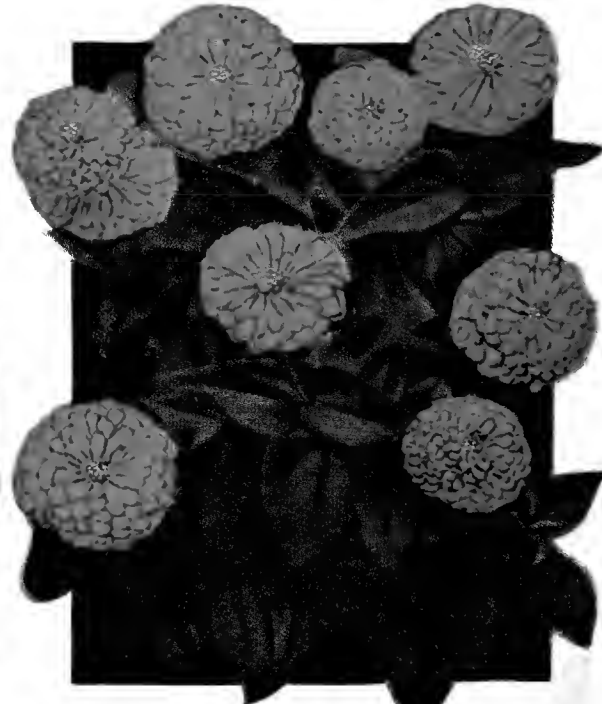
CALENDULA "CAMPFIRE"
No. 1217. Pkt., 15c—Page 48



ANNUAL GAILLARDIAS
No. 1380. Pkt., 10c—Page 50



BROWALLIA (AMETHYST)
No. 1214. Pkt., 15c—Page 46



RED RIDING HOOD ZINNIAS
No. 1976. Pkt., 10c—Page 56

HARDY GARDEN LILIES

Lilies are so incomparably beautiful, that no garden is complete without them. They are perfectly hardy and easily grown in any good garden soil.

How to plant—Spade the ground to a depth of 2 feet, and enrich with well-rotted barnyard fertilizer and leaf mold. Place a handful of sand under and around each bulb to insure good drainage and prevent rotting.

Location—The shrubbery or hardy border is an ideal location for lilies as they like sunshine on their tops and shade about their roots, and the background of foliage shows their flowers to best advantage.

AURATUM. (Gold Banded Lily of Japan.)

4-6 ft. Large fragrant flowers of a delicate ivory-white, richly spotted with crimson and striped with golden yellow. Set bulbs 10-12 inches deep. Each 30c, 3 for 80c, prepaid.

RUBRUM MAGNIFICUM. (The Lance-Leaved Lily.)

Exquisite fragrant white lilies, beautifully striped and spotted with rose and crimson. Petals are recurved and wax-like. Plants do not grow quite so tall as the Auratums. Each 30c, 3 for 80c, prepaid.

HENRYI. (Yellow Speciosum.)

4-6 ft. A handsome lily from central China. Produces branching heads of soft orange-yellow flowers with reflexing petals. Very striking. Bulbs should be set 10-12 inches deep. Each 40c, 3 for \$1.10, prepaid.

REGALE. (The Queen of Lilies.)

4-5 ft. This beautiful Chinese lily bears large white trumpet-shaped flowers, with centers flushed yellow. Reverse of petals a lovely deep rose. Each 25c, 5 for \$1.00, prepaid. Illustrated in color on page 37.

TENUIFOLIUM. (Coral or Fern-Leaved Lily.)

1½-2 ft. Dainty little flowers of a brilliant coral-red are borne in clusters on slender stems, with finely cut fern-like foliage. Set bulbs 7 inches deep. Excellent for the rock garden or border. Each 25c, 3 for 60c, prepaid.

DOUBLE TIGER LILY. (Tigrinum Flore-pleno.)

This brilliant lily should be in every hardy garden. It is one of the hardiest of all lilies, and spreads rapidly. Flowers are borne in clusters, and are double, deep orange, with black spots. Each 20c, 3 for 50c, prepaid.

GOLDEN DAY LILY. (Hemerocallis.)

1½-2 ft. Beautiful hardy perennials belonging to the lily family. Plants have long narrow leaves and produce orange-yellow flowers in clusters of 3-6 on tall slender stems. Each 20c, 3 for 50c, prepaid.

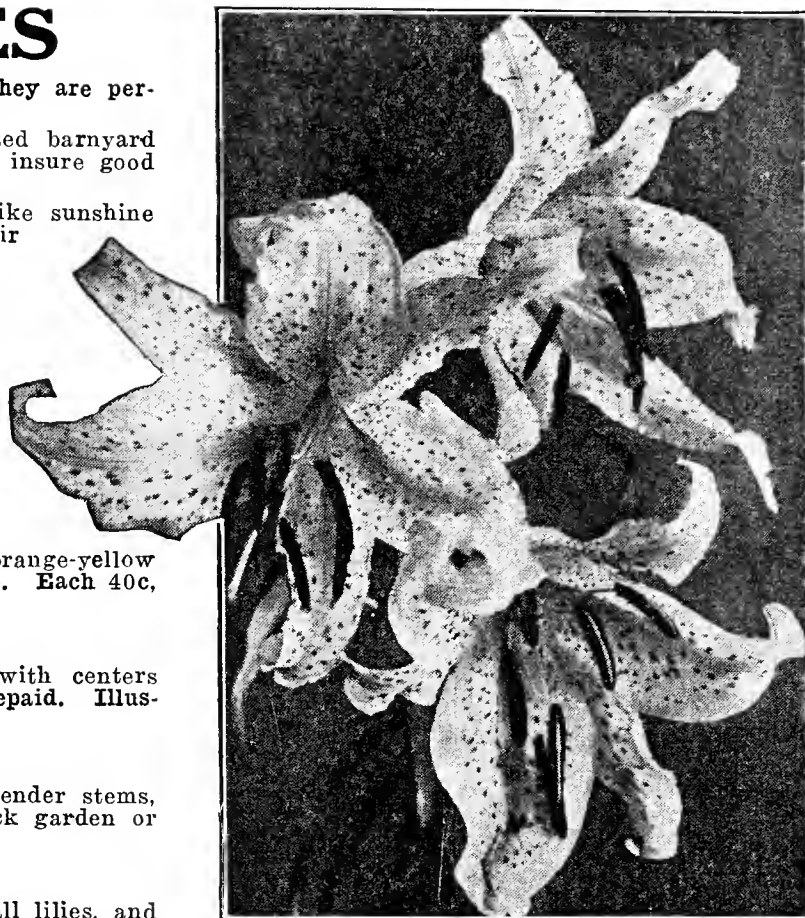
ISMENE CALATHINA. (Peruvian Daffodil.)

Not hardy. Lovely large amaryllis-like flowers of pure white, borne 3-4 on a stem. Plant outdoors in June. Bulbs may be taken up in October, stored in a cool dry place for several weeks, and then potted and flowered in the house in winter. Each 25c, 3 for 50c, prepaid.

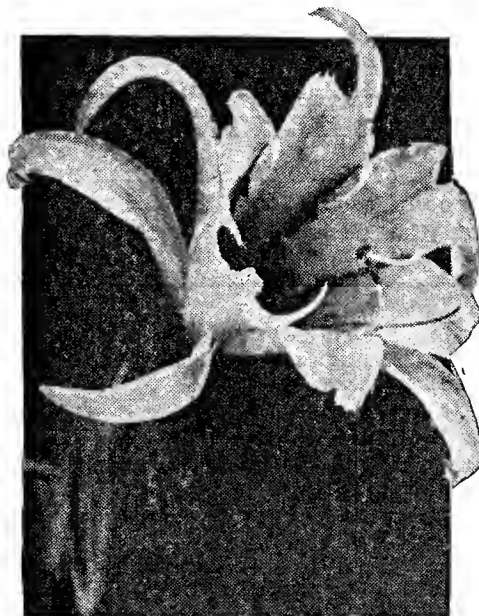
For Non-Hardy Lilies, see page 45.

SPECIAL LILY BULB COLLECTION

No finer assortment of lilies could be found anywhere, and here is a real bargain: 1 Auratum, 1 Rubrum, 1 Regal, 1 Amaryllis, 2 Golden Day Lilies. 6 bulbs in all (regular value \$1.65), all for \$1.25, prepaid.



Hardy Auratum Lily.



Ismene Calathina.

CINNAMON VINE. (Dioscorea Batatas.)

A beautiful climber—growing 30 ft. in a single season. Easily trained. It has glossy heart-shaped foliage and produces clusters of delicate white flowers, very fragrant. Especially hardy and will thrive anywhere. Strong roots 15c each, 3 for 40c, prepaid.

MADEIRA VINE. (Climbing Mignonette.)

Has small white feathery flowers; light green leaves, heart-shaped and is a rapid grower. Fine for arbor, trellis or summer houses. A free, constant bloomer—not hardy. Large bulbs 10c each, 3 for 25c, dozen 90c, prepaid.

For Hardy Vines, see page 36.

GIANT HYBRID AMARYLLIS.

Illustrated in color on page 37.

Magnificent house plants with handsome broad dark green leaves and gigantic flowers of perfect form and gorgeous beauty. The colors range from almost pure white, through various shades of pink to the deepest scarlet and maroon, some with mottled throats and beautiful markings. Complete cultural directions will be sent with order. 3-year bulbs in choicest mixture only. Each 40c, 3 for \$1.00, ppd.



Beautiful Long-Stemmed Darwin Tulips.

THE FIRST FLOWERS OF SPRING

Order Now, Delivery Will Be Made At Planting Time In Fall

THE CHOICEST NEW TULIP VARIETIES

	Each	Dozen
Prince of Wales (Darwin). Bright cherry-red with white base finely striped blue.....	\$0.08	\$0.75
Yolande (Darwin). Beautiful soft rose, inside brilliant salmon-rose.....	.09	.90
Mr. Dames (Cottage). Deep golden yellow. Large egg-shaped blooms.....	.09	.90
Melicette (Darwin). A charming pure lavender with reflexing petals.....	.09	.90
Velvet King (Breeder). Dark royal purple. A magnificent flower.....	.08	.75
Dido (Cottage). Deep rich pink, suffused salmon and edged with orange.....	.09	.90
City of Haarlem (Darwin). Cardinal red shading to scarlet; large blue base.....	.08	.75
Prince Albert (Breeder). Glowing mahogany-brown, shaded dull bronze.....	.08	.75
Grenadier (Cottage). Dazzling brilliant orange with yellow base.....	.07	.60
Ellen Willmott (Cottage). Soft creamy yellow, deliciously fragrant.....	.07	.65
King George V (Darwin). Brilliant rose with blue base. Immense flowers.....	.09	.90
President Taft (Darwin). Intense deep crimson-red. An outstanding Tulip.....	.08	.75
Special Collection—Two each of above 12 extra choice new varieties (24 bulbs) prepaid for \$1.40.		

Special Tulip Collection Offer: Contains the best standard varieties of Darwin, Breeder and Cottage Tulips in a gorgeous mixture, 25 Bulbs postpaid for..... **95c**

Single Early Tulips. In a fine assortment of colors. Per doz. 50c, prepaid.

Double Early Tulips. A splendid mixture made of the best sorts. Per doz. 60c, prepaid.

Mixed Daffodils. A wonderful mixture of the best types for naturalizing. Per doz. 90c, prepaid.

Dutch Hyacinths. First size for garden planting, rose, white, yellow and red. Per doz. 85c, prepaid.

Write for Special Fall Bulb Circular, ready September 15th



W. H. Phipps—Unusual in size and color.

BEAUTIFUL GLADIOLI

The Cream of the World's Best Varieties

Gladioli have become the most popular of all summer flowers, because of their beauty, ease of culture and usefulness. By making a succession of plantings, two weeks apart, flowers may be had from the middle of July to frost.

CULTURE—Any good garden soil will grow Gladioli provided they are planted in a sunny location. The bulbs should be set 4-5 inches deep and at least 6 inches apart. Keep the soil loose and friable by frequent and thorough cultivation.

TWELVE GLADIOLUS ARISTOCRATS

BETTY NUTHALL. Coral pink with a pale orange throat and a light feathering of carmine. A wonderful flowers. Each 8c, dozen 80c, prepaid.

Dr. F. E. BENNETT. Deep peach-red, with flame-scarlet suffusion. Considered the finest of its color. Each 5c, dozen 50c, prepaid.

DR. NELSON SHOOK. A deep Tyrian rose. Giant in plant and flower, and a grand exhibition sort. Each 7c, dozen 70c, prepaid.

FERN KYLE. Large ruffled flowers of creamy white, many open at a time on long, strong stems. Vigorous grower. Each 5c, dozen 50c, prepaid.

GOLDEN DREAM. Beautiful deep golden yellow. A bowl of Golden Dream and Veilchenblau produces a delightful color effect. Each 5c, dozen 45c, prepaid.

HERBSTZAUBER (Autumn Fascination). A wonderful copper-salmon. Has created a great sensation at flower shows. Each 5c, dozen 50c, prepaid.

LOS ANGELES. Shrimp-pink with glowing orange-carmine blotch in throat. Very tall and graceful. Each 5c, dozen 45c, prepaid.

MARMORA. Lavender-gray with petunia-colored blotch in throat. A wonderful color combination, and one of the finest Gladioli ever introduced. Each 16c, dozen \$1.60, prepaid.

MINUET. Beautiful clear lavender. The color is so pure and striking that it is the lavender by which all others are judged. Each 6c, dozen 60c, prepaid.

SCARLET PRINCEPS. Intense scarlet, with a massive arrangement of flowers on stem. Very distinct. Each 5c, dozen 45c, prepaid.

W. H. PHIPPS. Soft flesh-pink, shaded salmon-rose; lower petals delicately striped and flaked. From 12 to 20 blossoms open at one time. Each 5c, dozen 45c, prepaid.

VEILCHENBLAU. A lovely violet-blue with a beautiful velvety sheen. The first large-flowering blue-violet Gladiolus so far introduced. Each 10c, dozen \$1.00, prepaid.

SPECIAL COLLECTION GLADIOLUS ARISTOCRATS

One each of above 12 outstanding new sorts..... **65c**
Three of each (36 bulbs) for \$1.75, prepaid. **Prepaid**
All of the above named varieties have been given awards of merit, and medals wherever shown in America and abroad.

10%
Discount
on Orders
of \$3.00 or
More—
Collections
Excluded.

THE CHOICEST STANDARD VARIETIES

ALICE TIPLADY. A grand Primulinus variety of brilliant orange-saffron with golden throat. Winner of hundreds of awards. Each 4c, dozen 40c, prepaid.

ANNA EBERIUS. Rhodamine-purple with deep amaranth-purple blotch in throat. A vigorous growing and outstanding variety. Each 5c, dozen 45c, prepaid.

CRIMSON GLOW. Immense flowers of deep scarlet-crimson on tall, strong spikes. A striking exhibition and garden sort. Each 4c, dozen 40c, prepaid.

E. J. SHAYLOR. Pure, deep rose-pink. Tall, strong plant and large blooms. Recently awarded a certificate of merit in London. Each 4c, dozen 40c, prepaid.

EVELYN KIRTLAND. Shell-pink, shading to deeper pink at edges of petals, with brilliant scarlet blotch in throat. Extra fine form and color. Each 4c, dozen 45c, prepaid.

GOLD. Large, creamy yellow flowers of good substance on tall, strong stems. A great favorite with all who have grown it. Each 5c, dozen 50c, prepaid.

HALLEY. One of the earliest blooming varieties. Flowers are very large, of a beautiful salmon-pink color, with creamy white blotch in throat. Each 4c, dozen 40c, prepaid.

JOE COLEMAN. Beautiful rich red with deeply ruffled petals. Many flowers open at one time. A strong grower and good propagator. Each 4c, dozen 45c, prepaid.

JOHN T. PIRIE. Mahogany-brown with yellow bordered throat. An exceptional and striking color that affords a striking contrast with other sorts. Each 5c, dozen 50c, prepaid.

MARY PICKFORD. Delicate creamy white with sulphur-yellow throat. Stem and calyx also white. Was awarded a certificate of merit. Each 5c, dozen 45c, prepaid.

MRS. DR. NORTON. Soft La France pink shading to very pale pink at throat. The lower petals have deep cream bases with carmine pencilings. Each 4c, dozen 40c, prepaid.

MRS. FRANCIS KING. Brilliant salmon-pink, shaded vermillion. Extra tall straight spikes with 18 to 20 immense flowers. A popular favorite. Each 4c, dozen 40c, prepaid.

MRS. FRANK PENDLETON. Tall spikes of rose-pink flowers with deep maroon blotch on lower petals. One of the most popular. Each 4c, dozen 40c, prepaid.

MRS. H. E. BOTHIN. Geranium-pink with flaming scarlet center. A beautiful color combination. The flowers are heavily ruffled. Each 5c, dozen 45c, prepaid.

MRS. P. W. SISSON. Immense ruffled flowers of softest cameo-pink, with creamy white throat. Blooms are well placed on tall, strong spikes. Each 5c, dozen 45c, prepaid.

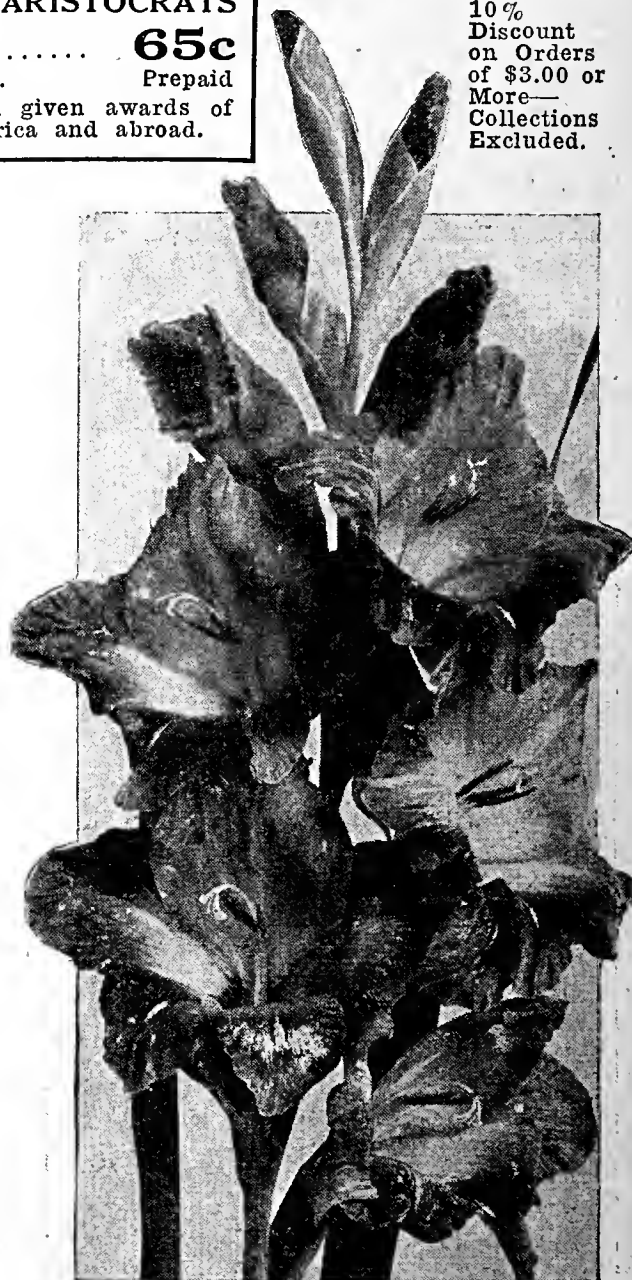
MING TOY. Deep, showy buff with Chinese yellow throat. A Primulinus variety, giant-flowered, with good, strong stems. Each 5c, dozen 45c, prepaid.

PINK WONDER. An exquisite soft pink with a trace of rose feathering in the throat. Often produces 17 blooms to the spike. Each 5c, dozen 45c, prepaid.

PURPLE GLORY. Giant ruffled flowers of deep velvety maroon with almost black blotch in throat. Very tall with sturdy stems. Each 6c, dozen 60c, prepaid.

SOVEREIGN. An improvement on the purple Baron Hulot, with much larger flowers. Each 6c, dozen 60c, prepaid.

TREASURE GARDEN GLADS—All Colors—1st Class Blooming Size Bulbs; Our Selection—Dozen 30c, 50 for \$1.00, 100 for \$1.85, 500 for \$8.75, prepaid.



Purple Glory—Deep, velvety maroon.

SUPERB DAHLIAS

Marvels in Size of Flower and Length of Stem

Our prices are for strong field-grown tubers, dormant stock, and include postage. Leaflet on Dahlia Culture free upon request.

JERSEY'S GLORY. Decorative. A new introduction with large, broad petaled flowers of an exquisite peach color. The plant is a robust grower with long stems branching freely from the base. Each \$1.00, prepaid.

GRAF ZEPPELIN. Decorative. The best snow white of the Jersey Beauty type. Flowers of immense size on long, stiff stems. A prize Dahlia with a certificate of merit. Each \$1.00, prepaid.

ZEUS. Decorative. A wonderfully rich glowing red, each petal distinctly tipped with gold. A giant flower, so artistically formed and richly colored that it attracts immediate attention. Each 85c, prepaid.

SANHICAN'S BLUEBIRD. Decorative. An uncommonly handsome flower, the outer petals at maturity are bright violet-blue, while the center retains the violet tint. Of giant size and perfect form. Each 40c, 3 for \$1.00, prepaid.

KENTUCKY. Decorative. A brilliant salmon-orange shading to orange-yellow at the base, and deepening to grenadine-pink on outer petals. A sport of Jersey's Beauty, having the same excellent qualities. Each 50c, 3 for \$1.35, prepaid.

AMERICAN TRIUMPH. Cactus. Color bright oriental red. Winner of the American Home Sweepstake at New York, and many other medals. A strong, vigorous grower and free bloomer on long, stiff stems. Each 65c, 3 for \$1.75, prepaid.

JERSEY'S BEAUTY. Decorative. Color is a vivid, glowing rose-pink. The massive flowers are of great depth, always full to the center. Plants are strong with tall, stiff stems. Each 25c, 3 for 65c, prepaid.

GOLDEN WEST. Cactus. A rich golden yellow. The flower is large, 6 to 8 inches across, the outer petals reflexing somewhat, and a full high center, making it very deep. Plants are sturdy and free flowering. Each 30c, 3 for 80c, prepaid.

LIBELLE. Cactus. A beautiful aster purple. A strong, vigorous grower, producing large beautiful flowers on long, stiff stems. Each 25c, 3 for 65c, prepaid.

GOLDSCHMIDT'S TOCHTERLEIN. Cactus. An exquisitely lovely salmon-rose color and distinct formation. An early and profuse bloomer. One of the best for garden and cutting. Each 30c, 3 for 80c, prepaid.

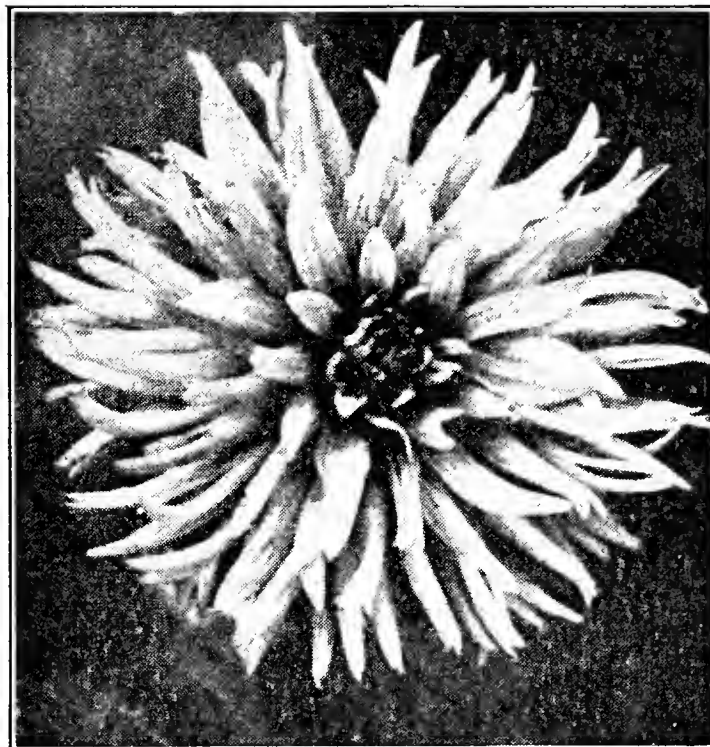
ANN DUSKIN. Paeony. Beautifully formed flowers of richest maroon on long, slender erect stems. Plants are sturdy with dark rich foliage. Blooms are of good size. Each 25c, 3 for 65c, prepaid.

SUNSET GLOW. Cactus. Color is yellow at base of petal, outer part overlaid flame scarlet, lightly tipped yellow. It is an early and profuse bloomer, with every flower of perfect form. Each 20c, 3 for 50c, prepaid.

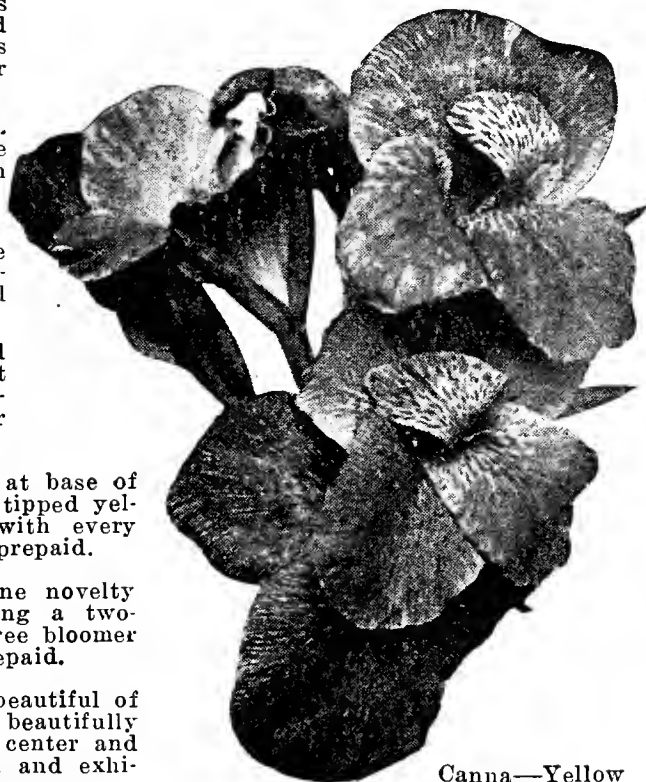
JERSEY'S BEACON. Decorative. This fine novelty is Chinese-scarlet, paler on the reverse, giving a two-toned effect. It is a great favorite; large, a free bloomer and vigorous grower. Each 35c, 3 for 90c, prepaid.

MARY DORR. Cactus. One of the most beautiful of all cactus dahlias. Flowers are large and beautifully formed, of a bright pink, blending to white at center and tips; reflex amaranth-pink. A splendid garden and exhibition variety. Each 30c, 3 for 80c, prepaid.

MIXED DAHLIAS. Includes all different types, varieties and colors. 3 for 40c, 6 for 65c, prepaid.



Cactus Dahlia, Mary Dorr.



Canna—Yellow King Humbert.

SPECIAL DAHLIA COLLECTIONS

Giant Exhibition Collection

One { Jersey's Glory—peach	\$2.10
of { Graf Zeppelin—white	
Each { Zeus—rich glowing red	
Prepaid (Value \$2.85)	

Unusual Merit Collection

One { Sanhican's Bluebird—blue	\$1.15
of { Kentucky—orange-salmon	
Each { American Triumph—red	
Prepaid (Value \$1.55)	

Prize Garden Collection

One { Jersey's Beauty—rose-pink	75c
of { Libelle—purple	
Each { Golden West—golden-yellow	
Ann Duskin—velvety maroon	
Prepaid (Value \$1.05)	

THE FLOWER EDUCATOR is a book every flower lover needs. It tells how, when and where to grow flowers, bulbs, house plants and shrubs. A complete guide with quick reference index. Many illustrations and diagrams. 600 pages, pocket size. Price: \$1.50, prepaid.

CANNAS

Used extensively for mass planting in beds and for color effect in hardy borders. Roots started indoors in April may be set out in June when danger of frost is past. We offer dormant roots of first quality.

KING HUMBERT. 4 ft. Large trusses of orange-scarlet flowers. Foliage is bronze, very broad and handsome. A "Gold Medal" Canna.

THE PRESIDENT. 4½ ft. Rich glowing scarlet flowers, 7 inches across, on strong, erect stalks. The foliage is green.

HUNGARIA. 3½ ft. The best pink Canna. Leaves bluish-green, never burn. Trusses are compact and of enormous size.

YELLOW KING HUMBERT. 4 ft. Flowers a deep rich yellow, softly spotted and blotched with bright red. Foliage very dark green.

APRICOT. 4 ft. Color, buff-yellow overspread with salmon-pink, producing a mass effect of rich apricot.

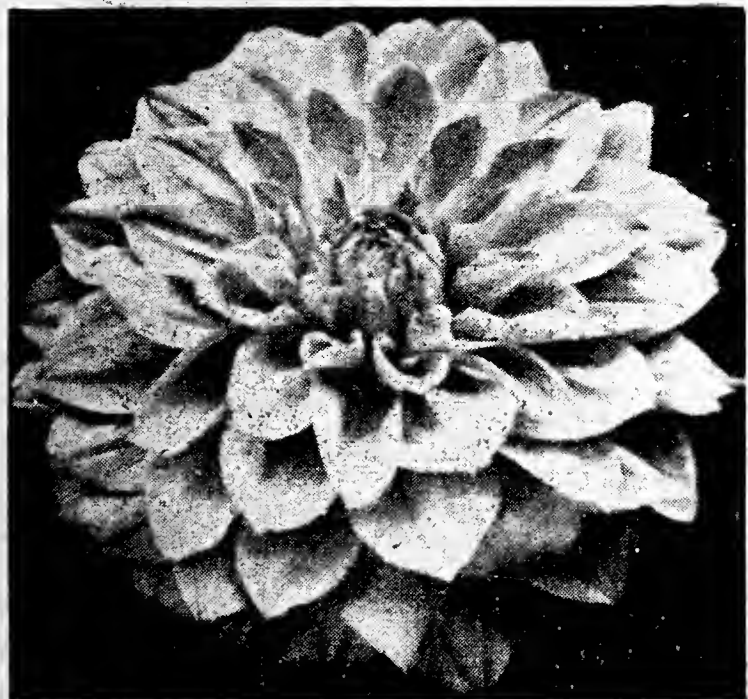
MRS. ALFRED F. CONRAD. 4 ft. Unsurpassed for planting either singly or in large beds. Foliage is green; flowers exquisite pink.

GOLDEN EAGLE. 4 ft. Color, pure golden yellow. Very rich and effective. Flowers of good size held well above the foliage.

Price, any of the above dormant roots, 12c each, 60c for six, \$1.00 per doz., ppd. Collection—19 Cannas, your choice any of above named varieties, for \$1.25, ppd.

Suggestions for a Showy Canna Bed

A round bed 7 feet in diameter requires 19 Cannas. They should be set 18 inches apart each way, one in center, six in first row and twelve in outside row. The center of the bed should be 4 to 6 inches higher than the level of the lawn. Foliage plants such as Coleus, Dusty Miller, etc., make an effective border.



Decorative Dahlia, Graf Zeppelin.

THE BEST HOUSE PLANTS

ORNAMENTAL FRUITS

PONDEROSA LEMON—These enormous fruits are borne on plants one to two feet high, growing in pots. It is everbearing and its fruit is delicious for lemonade and other purposes. . . . 25c each; 3 for 72c. Larger plants 60c. Extra large plants, by express, \$2.00.

OTAHEITE ORANGE—With good sunlight they are seldom out of fruit from one year's end to another, and at least two-thirds of the time are in flower also. The fruit is very sweet and handsome. In beauty, grace and fragrance there is nothing like it. . . . 25c each; 3 for 72c. Larger plants 60c. Extra large plants, by express, \$2.00.

IMPORTANT!

Owing to quarantine restrictions cannot send Lemon and Orange Plants to Alabama, Arizona, California, Florida, Louisiana, Mississippi, South Carolina, Texas.

WHITE CALLA LILY

Produces pure white blossoms in winter and spring. Grows freely. . 25c each; 3 for 72c. Larger size 35c.

GIANT BLOOMING FUCHSIAS

LORD BYRON—Scarlet flowers, purple corolla. . . . 25c each; 3 for 72c.

PURPLE PRINCE—Sepals carmine; corolla lilac. . . . 30c each; 3 for 84c.

GLOIRE DES MARCHES—Deep scarlet and white. Double. . . . 30c each; 3 for 85c.

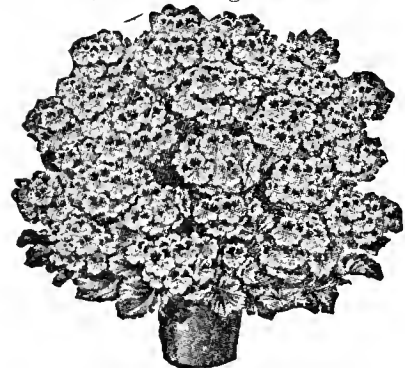
SPECIOSA—Tube and sepals carmine. . . . 25c each; 3 for 70c.

BLACK PRINCE—Carmine rose, extra large. . . . 25c each; 3 for 70c.



Free Blooming Fuchsias.

Our Plants are Mailed in a Package by Themselves not with other items of your order.



Pelargonium, Easter Greeting.

PELARGONIUM, EASTER GREETING

Gorgeous in coloring. Fiery amaranth red. Each petal marked with black spot in center. . . . 40c each; 3 for \$1.14.

For Window Boxes and Urns, see page 27.

For Plant Food and Fertilizers, see page 72.

For Insecticides and Fungicides, see page 73.



Hen and Chickens.

FLOWERING PLANTS FOR WINDOW BOXES AND FLOWER BEDS

Ready in April—Transplanted Plants—Not Potted.

ASTERS—Giant Branching. **PETUNIAS**—Large Ruffled.

PANSIES—Giant Masterpiece. **SALVIA**—Boufire.

ZINNIA—Dahlia Flowered. (See page 25.)

Your choice—mixed colors. . 40c dozen; 3 doz. for \$1.10, prepaid.

HEN AND CHICKENS

A most interesting and novel flower. Plants grow from 4 to 6 inches high, throwing up odd-shaped flower stalks. Leaves are thick and fleshy and of bluish green color. . . . 30c each; 3 for 84c.

TWO NEW HIBISCUS

PEACHBLOW—Novelty with double pink flowers and deep crimson center. Splendid house-plant—30c each; 3 for 84c. Larger size . . . 60c.

MINEATUS—Another beautiful Hibiscus. Double dark red. . . . 35c each; 3 for 99c. Larger size 65c.

PORCH HYDRANGEAS

For the Porch, Lawn and Garden

RADIANT—Deep rosy-carmine. Large showy leaves. . . . 35c each; 3 for 99c.

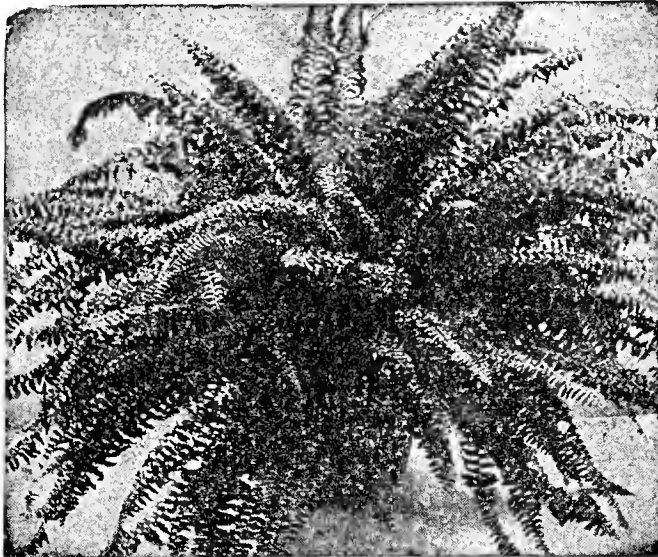
TROPHEE—Strong, erect flower heads, rich pink. . . . 32c each; 3 for 90c.

AVALANCHE—Immense fringed white flowers. . 35c each; 3 for 99c.

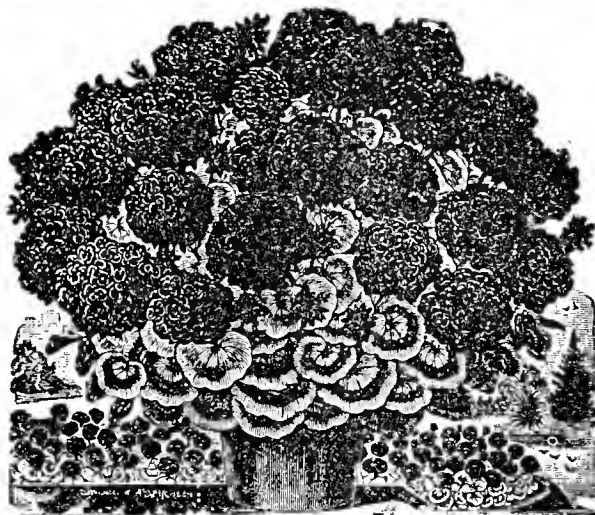
BLUE BELL—Exquisite light blue. Very popular. . . . 40c each; 3 for \$1.14.

We cannot accept Plant Orders under 50 cents.

Hibiscus Peachblow.
All Plants sent Postpaid except when marked express.



Boston Fern.



Double Flowering Geranium.

We Guarantee safe arrival of all Plants sent out by us.

STRAWBERRY GERANIUM

A gem. Leaves striped with silver bands, blooms white. Long drooping tendrils, producing freely at joints. . 30c each; 3 for 84c.

VARIEGATED LEAVED GERANIUM

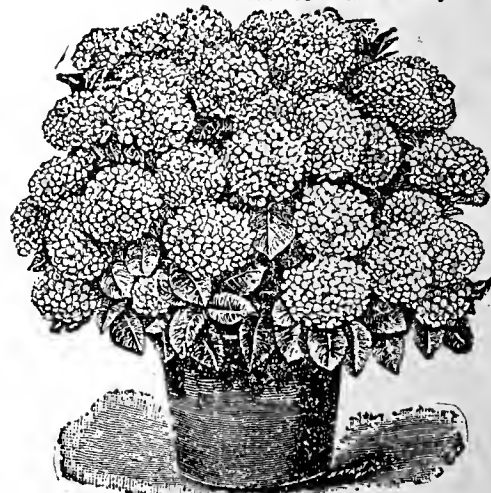
HAPPY THOUGHT—Foliage green and yellow. Magenta flowers. . . . 30c each; 3 for 84c.



Strawberry Geranium.



White Calla Lily.



French or Porch Hydrangeas.

THE BEST HOUSE PLANTS

AUSTRALIAN SILK TREE

A fine plant for the house, being of rapid growth with finely cut foliage. The young fern-like leaves are of a light brown color, the tips being covered with a soft down, closely resembling raw silk, hence the name "Silk Oak." In its native place it grows large and has bright, orange-colored flowers. 25c each; 3 for 72c.

SHOWY LANTANAS

PERFECTION—Brilliant yellow, shading to vermillion. 25c each; 3 for 72c
RADIATION—Crimson shading to yellow at center. 25c each; 3 for 72c
SNOW WREATH—Very compact, pure white. 25c each; 3 for 72c
TETHYS—New. Pure lemon yellow. 25c each; 3 for 72c

WEeping—Differs from above bedding varieties, as it is a very striking plant of trailing habit. Grows very rapidly and blooms continually producing clusters of rosy-pink flowers. Foliage a beautiful dark green. 25c each; 3 for 72c

BABY TEARS OR IRISH MOSS

Compact, dense growing, with miniature leaves, neat habit, forming a rounded mass of moss-like foliage. Partially creeping or drooping which adds much to its attractiveness. Grows easily under living room conditions. 30c each; 3 for 84c.



Brazilian Plume Plant.

BRAZILIAN PLUME PLANT

Of easy culture requiring little attention. A strong rapid grower throwing out long shoots each of which is tipped with beautiful pink, plume-like flowers, the ends of each petal drooping in a most charming manner. 25c each; 3 for 72c.

Use Nu-Life Plant Food for House Plants. Very Effective to Pep Them Up. See Page 72.

VINCA ROSEA

A new free-blooming bedding plant, growing about a foot high. Has beautiful star-like flowers of rosy purple and white colors. Flowers are frequently two inches across. Foliage is a glossy green, and the plants bloom continuously from early spring until frost. Plants cannot be had until April, and they are most desirable for window boxes and flower beds. Set plants a foot apart and water frequently. Easily grown. Order early as our plant supply is limited. 6 plants for 50c; 12 for 75c; 24 for \$1.35, prepaid.



Christmas Cactus.

CROWN OF THORNS

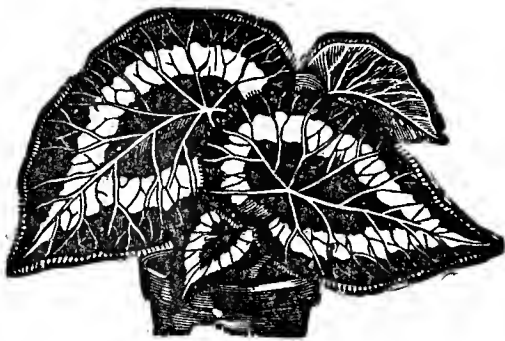
A curious plant with thick twining stems which are covered with sharp, stout spines nearly an inch long. The foliage is bright green and the bloom a beautiful coral-pink. 28c each; 3 for 78c.

GIANT FLOWERED CYCLAMEN

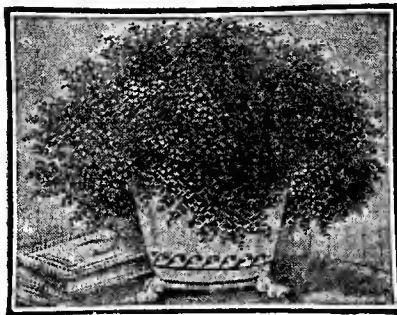
These are charming plants with beautiful foliage and richly colored, sweetly fragrant flowers. Universal favorite for winter and spring blooming. All of our Cyclamen plants are grown from seed, which has been saved from the very choicest plants. Great care is taken to have a variety of colors and markings, and our collection is very fine. 40c each; 3 for \$1.14

JEWEL FLOWER

STEPHELIA—A curious succulent branching plant, without leaves, resembling a Cactus producing singular and beautiful flowers, star-shaped and nearly two inches across, dark brown spotted with yellow. Blooms mainly in autumn and winter. 35c, postpaid.



Mammoth Leaved Rex Begonia.



Baby Tears or Irish Moss.



Blue Lily of the Nile.

BLUE LILY OF THE NILE

This plant is not hardy and must be taken inside during the winter. Bright green foliage, three feet high and surmounted with spikes of bright blue flowers which remain in bloom for a long time. 35c each; 3 for 99c. Extra size plants, 65c.

FOR WINDOW BOXES AND URNS, SEE PAGE 27.
 FOR WINDOW BOX PLANTS, SEE PAGE 26.

CARNATIONS

Choice Plants from the Finest Large Flowered Varieties Below.
 One Plant each of the 4 for only 99c.

HARLOWARDEN—Deep crimson red27c each; 3 for 78c
MAINE SUNSHINE—Clear golden yellow.....30c each; 3 for 84c
PINK ELDORA—Beautiful rich pink.....27c each; 3 for 78c
WHITE MATCHLESS—Sweet scented white.....27c each; 3 for 78c



Large Flowering Chrysanthemums.

BEGONIAS

MAMMOTH LEAVED REX—It produces elegant mammoth leaves of rich metallic lustre, and colors blending from brightest green glistening silver and orange to beautiful plum hues. 40c each; 3 for \$1.14

CHRISTMAS RED—Foliage rich glossy green, shaded deep bronze. Flowers exquisite, bright cherry red. 25c each; 3 for 72c

BEEFSTEAK—Its circular leaves of heavy texture, red beneath, above a glossy olive-green, oil-like cast make it an outstanding variety. Dainty flowers are exquisite coral-red. 32c each; 3 for 89c

ARGENTEA GUTTATA—Grows 3 to 4 feet tall. Purple-bronze leaves, oblong in shape with silver markings; white flowers. 25c each; 3 for 72c, postpaid.

GLOXINIAS

Bloom in six or eight weeks and will continue in bloom for three months. Mixed colors, covering shades of white, red, violet. When started to grow give plenty of water and keep them shaded. Ready for shipment March 1st. 50c each.

PINK FLOWERING WAX PLANT

Produces beautiful pink flowers at all times. Of frosted waxlike appearance. Suitable for rock work, hanging baskets, also for a pot plant. Price 35c, 3 for \$1.00.

NEW COMET PLANT

The most unique flowering plant of the century. Fluffy, trailing, tail-like blossoms, soft crimson scarlet. 35c each; 3 for 99c.

SNAKE PLANT (*Sanseveria*)

The ideal house plant, its thick leathery, sword-like leaves standing the heat, dust, and gas with impunity. Leaves are dark green in color, striped with white. 30c each; 3 for 84c. Larger sizes 50c and 75c.

GOLD BANDED SNAKE PLANT (*Sanseveria Laurentii*)

Decorative plant, striking in foliage; no other plant stands as much neglect and hardship. Nothing but frost or continued drenching with water has terrors for it. It will stand gas and dust and will go for months without a drop of water. Easily grown. 75c each; 3 for \$2.10, postpaid.

WATERMELON BEGONIA

Excellent for house, window or table. Leaves are variegated white and green, thick and waxy. 30c each; 3 for 84c.

CHRISTMAS CACTUS

Early flowering crimson scarlet variety. Long drooping flowers in great profusion. 45c each; 3 for \$1.35.



Snake Plant.

BEAUTIFUL COLEUS PLANTS

These popular foliage plants make beautiful flower beds. They do nicely either in sun or shade, although they need plenty of sunlight to bring out the most vivid colorings. We believe our collection is as complete as can be secured anywhere. 18c each; 3 for 51c; doz. \$1.25

AUTUMN TINTS—(New) red, blotched yellow.
BRILLIANCY—Giant foliage; red mottled gold.
GOLDEN BEDDER—Yellow shades.
TRAILING QUEEN—Very brilliant shades.

GIANT CHRYSANTHEMUMS

MRS. WAITE—Beautiful deep bronze. 25c each; 3 for 72c
YELLOW FROST—Rich golden yellow. 25c each; 3 for 72c
PINK CHIEFTAIN—A lovely deep rose-pink. 25c each; 3 for 72c
HARVARD—Magnificent dark red. 30c each; 3 for 84c
OCOTTO—An exquisite pure white. 25c each; 3 for 72c

THE NEWEST AND BEST IN FLOWER SEEDS



Anemone—Windflower.



A Border of Sweet Alyssum.



Achillea—The Pearl.

**ALL FLOWER SEEDS
ARE SENT POSTPAID
IN U. S. A. PROMPT
SERVICE ASSURED**

Our Flower Seeds are grown for us by leading American and European growers, and are true to name and color. They are carefully tested in our laboratories as well as in our trial grounds and we can honestly recommend everything we offer. Annuals flower from seed sown the first year and die. Biennials grow from seed the first season, flower and die the second season. Perennials raised from seed, do not flower until the second season, and if given winter protection continue to live and increase year after year.

Leaflet "HOW TO GROW ANNUALS AND PERENNIALS" free upon request.

**PLEASE ORDER BY
NAME AND NUMBER.
KEEP DUPLICATE
COPY FOR REFERENCE**

ACHILLEA (Perennial)

1020 Ptarmica, The Pearl. 2 ft. Produces large clusters of double pure white flowers from spring until frost. Splendid for cutting. Easily grown from seed. Pkt. 10c

ACONITUM or Monkshood (Perennial)

1022 Napellus. 2-3 ft. Handsome plants with bold spikes of dark blue helmet-shaped flowers in July and August. The roots are poisonous and should not be planted near the vegetable garden. Very effective in the border. Pkt. 10c

ACROCLINIUM, Double Mixed (Annual)

1024 Everlasting. 20 in. Graceful, daisy-like flowers, which if cut just before they open, can be dried for winter bouquets. . Pkt. 10c

AGERATUM or Floss Flower (Annual)

Dwarf, compact-growing plants excellent for bedding, edging or pot plants. Bloom all summer from spring-sown seed.

1027 Blue Perfection. 9 in. Clusters of feathery mauve-blue flowers. Pkt. 10c

1028 Farone. Buds open bright blue and later become slightly shaded with rose, producing a lovely color effect. Very dwarf and compact. Pkt. 15c

ALYSSUM, SWEET (Annual)

Forms a dense carpet of beautiful flowers and is unexcelled for low edgings and borders. Bloom from June to frost.

1032 Little Gem. "Carpet of Snow." 6 in. A sheet of fragrant snow-white flowers all summer. Oz. 50c; pkt. 10c

1033 Lilac Queen. 6 in. Delicate lavender flowers. Forms a pleasing contrast with the white variety. Oz. 70c; pkt. 10c

ALYSSUM, Madwort (Perennial)

1034 Saxatile Compactum. 9 in. An excellent plant for the rockery or front of borders. Produces broad masses of bright yellow flowers in early spring. Also known as "Basket of Gold." ¼ oz. 40c; pkt. 10c

ANCHUSA "Blue Bird" (Annual)

1040 Height 18-24 in. Bears large umbels of vivid, indigo-blue, forget-me-not-like flowers in a luxuriant bouquet on tall stems from July to October. Effective in the garden or for cutting. Pkt. 15c

ANEMONE (Perennial)

1042 St. Brigid. 1 ft. Valuable plants which furnish a brilliant display in the garden and an abundance of cut flowers. Once established they grow in strength and beauty each year. The flowers are double and semi-double, from 3-5 in. across, and are produced in a great variety of colors in May and June. Require winter protection. Pkt. 15c

ASPARAGUS, Ornamental (Tender Perennial)

1075 Plumosus Nanus. Graceful house plant with delicate lace-like foliage. Grown in ferneries, window boxes and baskets. Pkt. 15c

ANTIRRHINUM or Snapdragon (Annual)

The new improved Giant Flowered Snapdragons are very popular, and are easily raised from seed. The large size and perfect form of the individual bloom, combined with the symmetry of the spike make it an ideal cut flower.

1048 Rose King. Rich deep rose. Pkt. 10c

1049 Apple Blossom. Delicate rose-pink with white throat. . . . Pkt. 10c

1050 Old Gold. An exquisite shade. Pkt. 10c

1051 Harmony. Terra cotta orange, shaded rose. Pkt. 10c

1052 Bunch of Lilacs. Deep lilac. Pkt. 10c

1053 The Cardinal. A dazzling scarlet. Pkt. 10c

Collection of 1 pkt. each above 6 named varieties. 50c

1054 Giant Mixed Snapdragons ¼ oz. 50c; pkt. 10c

1060 Half Dwarf Snapdragons ¼ oz. 50c; pkt. 10c

AQUILEGIA or Columbine (Perennial)

1073 Height 2 ft. Splendid plants for partially shaded positions in the border or rockery. Foliage is graceful and fernlike; the dainty long-spurred flowers are produced in exquisite clear shades of blue, lavender, pink and yellow in spring. . . . Pkt. 15c

ARCTOTIS HYBRIDA (Biennial)

1074 Height 1 ft. Lovely daisy-like flowers in rich shades of orange, yellow and rose. Very free flowering and unexcelled for cutting. . . . Pkt. 10c

Baby's Breath, see *Gypsophila*, page 50.
Bachelor's Button, see *Centaurea*, page 48.

BALLOON VINE (Annual Climber)

1200 Height 10-15 ft. Graceful climber with pale green foliage and small white flowers followed by ornamental seed pods resembling small balloons. Oz. 25c; pkt. 5c

BALSAM, DOUBLE MIXED (Annual)

1205 Height 18-24 in. Sturdy bushy plants with large double flowers clustered in the axils of the leaves. Colors: red, rose, pink and white. Prefer rich soil and sunny position. . . . Pkt. 10c

BEGONIA, Vernon Everblooming (Annual)

1211 Unsurpassed for bedding plants or as pot plants for winter flowering. Grow 10-12 in. high and bloom profusely through summer and fall. Colors: all shades of red and rose. Pkt. 10c

BELLIS, English Daisy (Perennial)

1358 Height 6-8 in. Compact plants, with leaves forming a rosette; the daisy-like flowers of rose and white are borne on stiff stems. Bloom all summer. Pkt. 10c

BRACHYCOME (Annual)

1213 Height 8 in. Compact plants with deeply cut foliage and dainty flowers. Suitable for edging and pot culture. Bloom all summer. Mixed colors. Pkt. 10c

BROWALLIA, Amethyst (Annual)

1214 Speciosa Major. 1 ft. Free flowering bedding plants with flowers of a rare shade of brilliant ultramarine-blue. Valuable also as pot plants for winter blooming. Pkt. 15c



Aquilegia—Columbine.

ASTERS (Annual)

These popular annuals bloom profusely from late summer until frost, and furnish an abundance of cut flowers when other flowers are scarce. The blooming period can be lengthened by starting seed of the early, medium and late-flowering types.

Asters prefer an open sunny position, good soil, deeply spaded and well enriched with bone meal or other fertilizer, and an addition of air-slaked lime. They should not be grown on the same ground two years in succession, as this invites disease.

Paper Pots and Plant Bands guard young plants against cutworms. See page 8 for description and prices.

GIANT BRANCHING ASTERS (Late)

The most beautiful of all asters for cutting. The plants form strong bushes 24 to 30 inches high. The flowers are large and full with center petals incurved, and are borne on long stiff stems. The colors are clear and handsome.

- 1100 Sensation Red.
1101 Light Pink.
1102 Lavender.

- 1103 Purple.
1104 White Perfection.
1105 Mixed.

Each of the above ¼ oz. 50c; pkt. 10c
Collection of 1 pkt. each above 5 separate colors, 40c.

KING ASTERS (Midseason)

A distinct and beautiful type unlike any other variety. The flowers are large and full with stiffly quilled petals, those in the center being curled and incurved, completely covering the crown. Plants are of tall branching habit.

- 1114 Flesh King.
1115 Crimson King.
1116 Rose King.

- 1117 Violet King.
1118 White King.
1119 Mixed.

Each of the above ¼ oz. 50c; pkt. 10c
Collection of 1 pkt. each above 5 separate colors, 40c.

ROYAL BRANCHING (Medium Early)

The most beautiful of the early asters. The immense flowers are globe-shaped, with broad incurved petals; the stems are long and strong, growing directly from the ground instead of on side shoots from the main stem like other varieties.

- 1125 Royal Rose.
1126 Royal Pink.
1127 Royal Lavender.

- 1128 Royal Purple.
1129 Royal White.
1130 Royal Mixed.

Each of the above ¼ oz. 50c; pkt. 10c
Collection of 1 pkt. each above 5 separate colors, 40c.

QUEEN OF THE MARKET (Early)

The best early aster, coming into bloom two weeks earlier than any other sort. Plants grow 15-18 inches tall and are of graceful spreading habit. Flowers are of good size, full and double.

- 1135 Crimson.
1136 Purple.

- 1137 White.
1138 Mixed.

Each of the above ¼ oz. 50c; pkt. 10c
Collection of 1 pkt. each above 3 separate colors, 25c.

DWARF VICTORIA BEDDING ASTERS (Midseason)

1140 The best aster for borders and bedding. Grow about 12 inches high, each plant being a veritable bouquet covered with double ball-shaped blossoms. Mixed colors ½ oz. 35c; pkt. 10c

HARDY ASTER or Michaelmas Daisy (Perennial)

1145 Height 2-3 ft. Splendid for permanent position in the hardy border, where their masses of brightly colored, dainty blossoms liven up the garden in late autumn. The colors are shades of blue, pink and white. Plants form large, bushy clumps which should be divided and reset every 3 years.....Pkt. 15c

AURORA ASTER, AZURE BLUE

1150 This aster is an innovation and quite different from any other. The flowers are large and full, with beautiful azure blue petals surrounding a cushion center of yellow quills. The long stiff stems are excellent for cutting..Pkt. 15c

GIANT CALIFORNIA SUNSHINE ASTERS

1169 This new strain is undoubtedly the finest cut flower novelty introduced for many years. The flowers are very large and present a delicate lace-like effect. The guard petals of rose, pink, blue or lavender surround a center of tubular petals of light yellow or blue, producing beautiful color contrasts. Plants grow 3 feet tall, bearing the giant blooms on long stiff stems. Mixed colorsPkt. 15c

SURPRISE ASTER "SALMONGOLD"

1170 An aster of surpassing loveliness. The flowers open a pure salmon-yellow, changing to salmon-pink as they develop. They are from 3-3½ inches in diameter, round and double to the very center. The plants branch freely and carry an abundance of fine blooms on long stems.....Pkt. 20c

HEART OF FRANCE

1175 The most beautiful of all red asters. Its remarkable color of rich glowing red, deepens with age. The flowers are of good size, very full and double and are borne on long stiff stems. Plants are of strong branching habit.....Pkt. 15c

GIANT COMET or Ostrich Feather (Midseason)

An improved strain of Comet Aster with large fluffy blossoms, like chrysanthemums. The flowers are produced in great abundance on long stems.

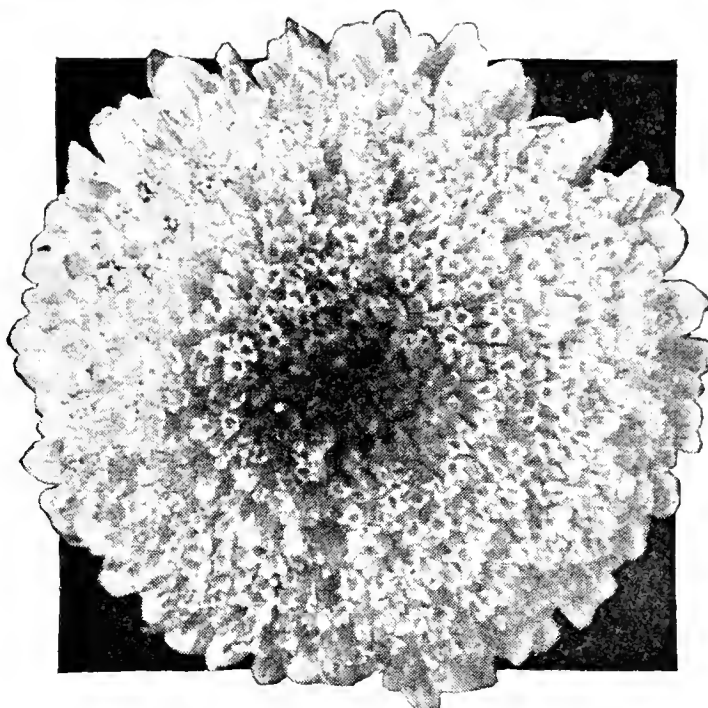
- 1180 Pink.
1181 Lavender.
1182 White.

- 1183 Dark Blue.
1184 Carmine.
1185 Mixed.

Each of the above ¼ oz. 50c; pkt. 10c
Collection of 1 pkt. each above, 5 separate colors, 40c.

SOLEIL D'OR, Golden Sun Aster

1195 The best yellow aster. The flowers have quilled petals and are very full and double, with long slender stems, fine for cutting..... ¼ oz. 50c; pkt. 10c



Aurora Aster "Azure Blue."

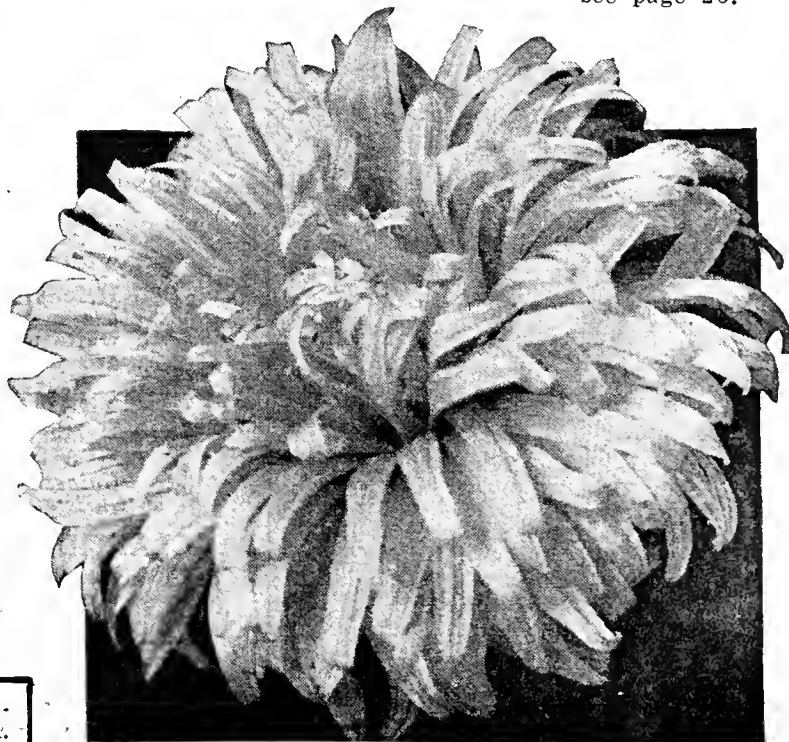


Giant Branching Asters.

Our Big 3 Aster Offer.

1 pkt. Royal.
1 pkt. Comet.
1 pkt. King. } **20c**

For Aster Plants, see page 26.



Giant Comet or Ostrich Feather Aster.

SEMESAN-treated Aster seed means sturdy, healthy young plants with practically no loss from damping-off. May be applied to seed either as a dust or liquid. Full directions in each can. 2-oz. can 50c, prepaid.



Candytuft—Giant Hyacinth Flowered.



Calendula, Pot Marigold.



Chrysanthemum, Shasta Daisy.

CALENDULA or Pot Marigold (Annual)

Produce a fine effect in beds or mixed borders, where they continue in bloom from early summer to frost. The plants are bushy and grow about 1 foot high. They are easily raised from seed.

- 1215 The Ball. Immense double flowers of a brilliant glistening orange.....Pkt. 15c
 1216 Radio. Flowers are of medium size, good depth and clear orange color, with beautifully quilled petalsPkt. 15c
 1217 Campfire. Beautiful large flowers of brilliant orange with a scarlet sheen. A distinct new typePkt. 15c
 1218 Nankeen. Cream, flushed apricot. Very attractive..... $\frac{1}{2}$ oz. 20c; pkt. 5c
 1219 Finest Double Mixed. All colors..... $\frac{1}{2}$ oz. 20c; pkt. 5c

California Poppy, see *Eschscholtzia*, page 49.

CALLIOPSIS, Golden Wave (Annual)

- 1222 Height 2-3 ft. Plants are much branched and produce an abundance of showy flowers in various shades of crimson, orange and gold, from June until frost..... $\frac{1}{4}$ oz. 20c; pkt. 10c

CAMPANULA, Canterbury Bells (Biennial)

Plants form perfect pyramids about 2 feet high, and produce beautiful bell-shaped flowers on long upright stems. Bloom in early summer.

- 1225 Single Canterbury Bells. Mixed colors, rose, blue and white.....Pkt. 10c
 1226 Double Canterbury Bells. Mixed colors, pink, blue and white.....Pkt. 10c
 1232 Cup and Saucer Canterbury Bells. Has a very large calyx which is the same color as the corolla, giving the flower the appearance of a cup and saucer. Mixed colors.....Pkt. 10c

CANARY BIRD VINE (Annual Climber)

- 1235 Height 15-20 ft. Dainty cut foliage and curious bird-like blossoms of a clear canary yellow. Grows rapidly and is splendid for covering stumps, trellises or fences... $\frac{1}{2}$ oz. 25c; pkt. 10c

CANDYTUFT (Annual)

Dwarf plants admirably adapted for beds, edging, pots and borders. Will thrive anywhere, and blooms profusely throughout the summer. The flowers are excellent for cutting.

- 1240 Giant Hyacinth-Flowered. 1 ft. Enormous spikes of snow-white flowers... $\frac{1}{2}$ oz. 25c; pkt. 10c
 1242 Finest Mixed. Crimson, flesh, lilac, rose and white..... $\frac{1}{2}$ oz. 25c; pkt. 10c

CANDYTUFT, IBERIS (Perennial)

- 1243 Sempervirens. 1 ft. Dwarf evergreen plants covered with white flowers in spring and early summer. Fine for borders and the rock garden.....Pkt. 15c

CARDINAL CLIMBER (Annual)

- 1448 Height 20 ft. A strong rapid-growing climber with fine fern-like foliage and clusters of bright red flowers from midsummer to frost. Very showy and attractive.....Pkt. 10c

CARNATION, Giant Flowering (Annual)

Bloom profusely in summer and fall from seed sown in early spring. The large double flowers are borne on long stiff stems, and have a delicious spicy fragrance. Plants may be taken up in the fall and potted for indoor winter blooming.

- 1251 Double Red Carnation. Very large flowers of rich glowing crimson.....Pkt. 15c
 1252 Giant Marguerite Mixed. Colors: pink, red, striped and white.....Pkt. 10c

Castor Bean, see page 54.

CENTAUREA Cyanus (Annual)

Bachelor's Button or Cornflower. 2 ft. Of easy culture, showy in the garden and splendid for cutting. If the seed is sown broadcast together with the seed of annual poppies, they will bloom at the same time producing a beautiful color effect.

- 1264 Double Mauve. 1268 Double Blue.
 1266 Double Rose. 1269 Double Mixed.
 Each of the above..... $\frac{1}{2}$ oz. 30c; pkt. 10c
 1278 Sweet Sultan. (Imperialis.) 2-3 ft. Handsome artistic flowers, resembling the blossoms of thistles, delightfully fragrant, fluffy and double; on long smooth stems, fine for cutting. Mixed colorsPkt. 10c
 1280 Dusty Miller. 1 ft. Compact plants with finely cut silver-gray foliage. Extensively used for beds and edgings.....Pkt. 10c

CELOSIA or Cockscomb (Annual)

- 1255 Cristata. Height 12-18 in. Produces large ornamental flower-heads frilled and corrugated like a cock's comb. Mixed colorsPkt. 10c
 1256 Childsi. (Chinese Wool Flower). Height 3 ft. Large globular flower-heads, resembling balls of wool chenille, of a rich bright red color. Bloom from early summer to frost.Pkt. 15c
 1258 Plumosa. Height 3 $\frac{1}{2}$ ft. Forms pyramidal branching plants with large feathery flower-heads, ranging from orange to deep crimson. Mixed colors.....Pkt. 10c

CINERARIA (Tender Perennial)

- 1293 Beautiful house plants with clusters of daisy-shaped flowers of blue, purple, maroon and rose, which cover the plant with a sheet of bloom. Mixed colors.....Pkt. 25c

CHRYSANTHEMUM (Annual)

- 1285 Height 20 in. Produce long, stiff-stemmed, daisy-like flowers in attractive color combinations of yellow, brown, red, white and rose. Bloom abundantly during the summer and are fine for cutting..... $\frac{1}{2}$ oz. 25c; pkt. 10c

CHRYSANTHEMUM, Shasta Daisy (Perennial)

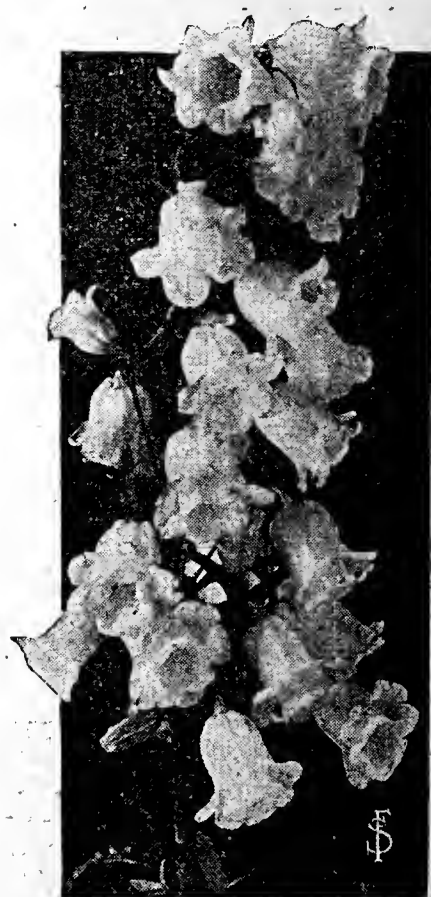
- 1290 Height 2 ft. June-Aug. Bears large white flowers on long stems; invaluable for cutting. Very free flowering. Pkt. 10c
 Chinese Lantern, see *Physalis*, page 53.
 Christmas Cherry, see *Solanum*, page 54.

CLARKIA (Annual)

- 1300 Height 2 ft. Plants send up a mass of slender upright branches covered with dainty, double flowers resembling sprays of Flowering Almond. Colors range from white, pink, deep rose and red to purple.... $\frac{1}{4}$ oz. 50c; pkt. 10c

CLEOME, Spider Flower (Annual)

- 1302 Height 3-4 ft. Striking plants with large interesting flowers of vivid rose, with long thread-like stamens extending out beyond the petals. Thrive in sandy soil and sunny positionPkt. 10c



Campanula, Canterbury Bells.

COBAEA SCANDENS or Cathedral Bells (Annual Climber)

1303 Height 15-20 ft. A rapid-growing, handsome climber with beautiful bell-shaped flowers 1½ inches across and 2 inches long. Flowers open a clear green, gradually changing to deep violet blue. Particularly desirable for covering arbors, walls, etc.....Pkt. 10c

COLEUS (Tender Perennial)

1305 Height 12-18 in. Handsome foliage plants valuable for bedding, borders and window boxes. The leaves are very large and of various shapes, they are marked and bordered in brilliant color combinations. Finest mixed.....Pkt. 10c
Columbine, see Aquilegia, page 46.

COREOPSIS (Perennial)

1308 Mayfield Giant. 18-24 in. A new strain producing vigorous plants with immense long-stemmed flowers of rich golden yellow. Blooms profusely during the summer and fall; unequalled for cutting. We strongly recommend this excellent new variety.....Pkt. 10c

COSMOS (Annual)

Plants form fine symmetrical bushes of feathery green foliage covered with lovely long-stemmed flowers from July until frost.

1310 Early Flowering Mammoth Mixed. 4-6 ft. Contains soft shades of crimson, rose, pink and lavender.....Pkt. 10c

1314 Double Early Flowering Mixed. 3-4 ft. Combines the beauty of the double-crested with the earliness of the single type. Colors are shades of crimson, pink and white.....Pkt. 15c

CYCLAMEN (Tender Perennial)

1319 Giant Flowering. Beautiful house plants with handsome foliage and richly colored flowers. Requires 15-18 months to produce flowering plants from seed.....Pkt. 25c

CYNOGLOSSUM or Chinese Forget-Me-Not (Annual)

1318 Amabile. 18-24 in. Of easy culture, producing large sprays of bright blue Forget-me-not-like flowers all summer. Splendid for mixing with other flowers in bouquets.....Pkt. 15c

CYPRESS VINE (Annual Climber)

1450 Height 10-15 ft. A good vine for training on a light ornamental trellis. Bears a profusion of star-shaped scarlet and white blossoms from midsummer to frost. Foliage is fine and fern-like.½ oz. 20c; pkt. 5c

DATURA, Angel's Trumpet (Annual)

1325 Cornucopia. 2-3 ft. Large strong-growing plants with immense trumpet-shaped, fragrant flowers of creamy white with violet markings. Blooms from early summer to fall.....Pkt. 10c

DELPHINIUM or Hardy Larkspur (Perennial)

Tall stately perennials unequalled for massing in the hardy garden or among shrubbery. The plants are of strong healthy habit with handsomely cut foliage and produce immense spikes of beautiful flowers in June and again in September.

1334 Belladonna. Exquisite shade of clear turquoise blue.....Pkt. 20c

1333 Bellamosum. Intensely rich, deep blue flowers.....Pkt. 20c

1332 Lemon Gem. Color, a beautiful clear yellow.....Pkt. 25c

1335 Gold Medal Hybrids. Flowers range in color from pale lavender to deep blue, with many of them double flowered.....Pkt. 15c

1336 Wrexham Hollyhock Flowered Strain. Produces spikes of enormous size, with individual blooms from 1½ to 2 inches in diameter, many of them bicolor.....Pkt. 25c

DIANTHUS or China Pinks (Annual)

Easily raised from seed, they bloom abundantly and continuously from early summer until frost.

1341 Finest Double Mixed. 1 ft. Brilliant colors, many are striped and mottled. ¼ oz. 25c; pkt. 10c

1348 Laciniatus. 1 ft. Very large fringed flowers ranging from white to deep crimson. Mixed colors.....¼ oz. 25c; pkt. 10c

DIANTHUS or Grass Pinks (Perennial)

1351 Plumarius. 1 ft. Charming old-fashioned flowers cherished for their spicy fragrance and rich coloring. Fine for rock gardens and edgings.

.....¼ oz. 25c; pkt. 10c
Dianthus Barbatius, see Sweet William, page 55.

DIDISCUS, Blue Lace Flower (Annual)

1354 Height 2-3 ft. Clusters of lovely umbel-shaped flowers, 2 to 3 inches across are produced from July to frost. The color is an exquisite shade of clear lavender-blue. A very desirable cut flower.....½ oz. 25c; pkt. 10c

DIGITALIS or Foxglove (Perennial)

1355 Height 3-5 ft. June-July. Showy plants producing many tall spikes closely set with large Gloxinia-like flowers of white, pink, rose and crimson, with beautiful throat markings of purple or maroon. Mixed colors.....Pkt. 10c

DIMORPHOTHECA (Annual)

1356 Golden African Daisy. 1 ft. Showy annual of neat branching habit with large daisy-like flowers of brilliant orange with dark-colored disks. Thrive best in a sunny position, where they will bloom all summer.....Pkt. 10c

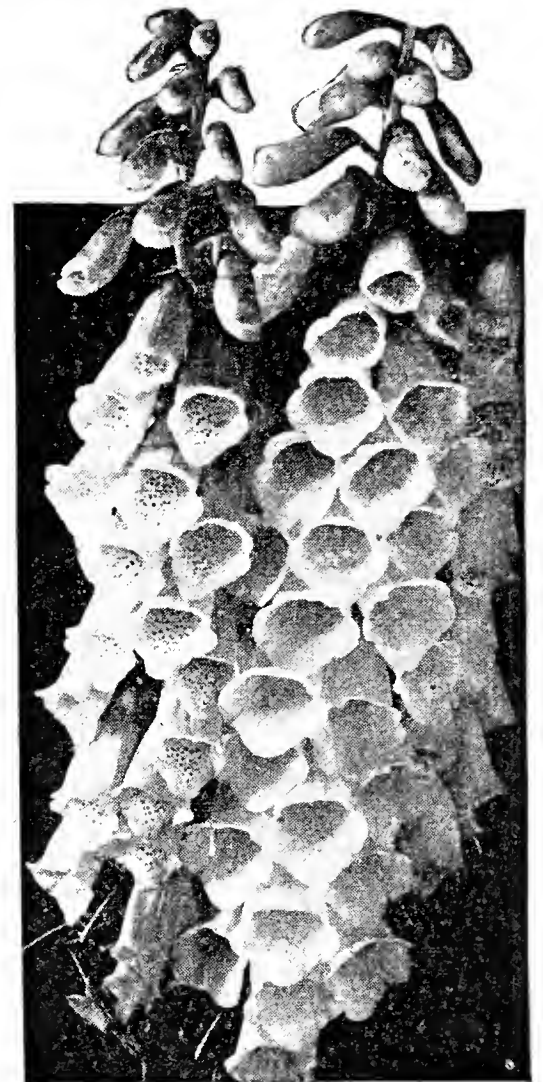
ESCHSCHOLTZIA, California Poppy (Annual)

The plants are of low spreading growth with finely cut foliage, and produce bright poppy-like flowers from early summer until frost. Attractive for bedding and edging.

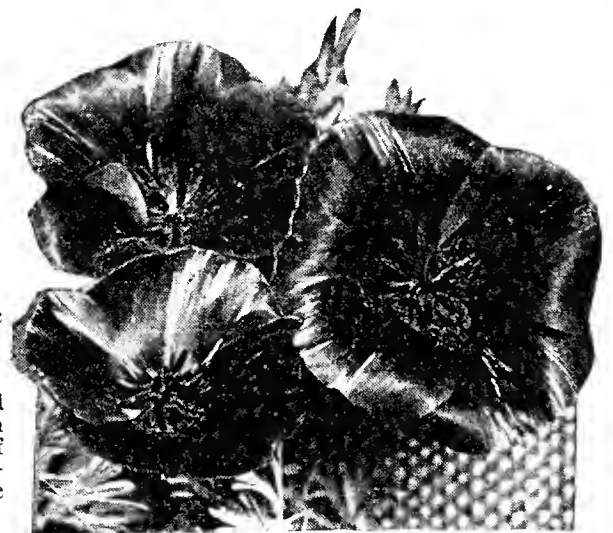
1361 Californica. Rich orange; the true California Poppy.....½ oz. 35c; pkt. 5c

1368 Hybrid Mixed. Colors include pink, red, yellow and white.....½ oz. 35c; pkt. 5c

For a handsome Flower Edging mix 1 oz. of Alyssum seed, "Carpet of Snow," with ¼ oz. of Lilac Queen. The lilac sort grows just enough taller than the white to give the edging an interesting irregularity in height, and the color combination is most beautiful.



Digitalis—Foxglove.



Eschscholtzia—California Poppy.



Dimorphotheca—Golden Daisy.



Delphinium—Hardy Larkspur.

Use
Sacco
Plant
Food
on All
Flowers
for
Best
Results
See
Page
72.



Hollyhock, Newport Pink.

OUR FALL CIRCULAR
contains full descriptions of
Tulips and Hardy Bulbs
for Fall planting and will
be sent free upon request.



Helichrysum—Strawflowers.

EUPHORBIA "Snow on the Mountain" (Annual)

1370 Height 2 ft. Ornamental foliage plants of bush-like form and branching habit, with clusters of inconspicuous flowers. The leaves are light green, broadly margined with white.....Pkt. 10c

Feverfew, see Matricaria, page 52.
Forget-me-not, see Myosotis, page 52.

GAILLARDIA or Blanket Flower (Annual)

1380 Perfection Double Mixed. 1-2 ft. Bloom quickly from seed and continue throughout the summer and fall. The flowers have quilled petals of gorgeous orange and scarlet, and are borne on long stems excellent for cutting..... $\frac{1}{2}$ oz. 25; pkt. 10c

GAILLARDIA GRANDIFLORA (Perennial)

1381 Height 2 ft. Produced on long strong stems, the flowers are often 3-4 in. across with petals of bronze-red or maroon, tipped golden-yellow. They are easily grown in ordinary garden soil, bloom all summer and are invaluable for cutting.....Pkt. 10c

GERANIUM (Tender Perennial)

1384 Of easy culture, producing blooming plants the first summer from spring sown seed. Valuable for bedding, borders, window boxes and house culture. Mixed colors.....Pkt. 10c

GEUM (Perennial)

1386 Mrs. Bradshaw. 2 ft. Dwarf tufted plants from which rise tall, graceful stems bearing large double flowers of a striking orange-scarlet. If the old stems are kept cut back, they will bloom throughout the summer.....Pkt. 20c

GILIA, Blue Thimble Flower (Annual)

1383 Capitata. 2 ft. Erect, bushy plants with fine feathery foliage and globe-shaped flowers of a rich lavender-blue. Good for cutting, as the blooms last well in water..... $\frac{1}{4}$ oz. 25c; pkt. 10c

ODETIA or Satin Flower (Annual)

1388 Height 1 ft. Plants bloom profusely, bearing large trumpet-shaped flowers of exquisite rose-pink. They thrive best in rather poor soil and a sunny position..... $\frac{1}{4}$ oz. 25c; pkt. 10c

GOMPHRENA, Globe Amaranth (Annual)

1390 Height 18-24 in. Bushy plants with clover-like blossoms of purple-red, yellow, rose and white. Very attractive in winter bouquets. They should be cut before they are fully open. Mixed colors.....Pkt. 10c

GOURDS, ORNAMENTAL (Annual Climber)

1403 Height 15-20 ft. Useful for covering arbors, fences, etc. The fruits are oddly shaped and beautifully marked and make interesting toys for children. Mixed varieties..... $\frac{1}{2}$ oz. 20c; pkt. 5c

GRASSES, ORNAMENTAL (Annual)

1395 Ornamental Mixed. 2-5 ft. Useful for winter bouquets when combined with Everlasting flowers. Easily grown in any soil.....Pkt. 10c

1396 Coix Lacrymae. (Job's Tears.) Broad glistening leaves. The seeds are hard and shiny and can be strung and used as beads.....Pkt. 5c

GYPSOPHILA or Baby's Breath (Perennial)

1415 Paniculata. 2-3 ft. Plants are branchy and spreading with stiff, wiry stems and minute white flowers, producing a graceful misty effect. Used extensively with cut flowers as well as for winter bouquets..... $\frac{1}{4}$ oz. 25c; pkt. 10c

GYPSOPHILA (Annual)

Graceful branching plants with clusters of delicate flowers about one-half inch across. Beautiful in bouquets with other flowers.

1416 Elegans Grandiflora Alba. 1-2 ft. Large-flowering pure white..... $\frac{1}{2}$ oz. 20c; pkt. 5c

1417 Elegans Grandiflora Rosea. 1-2 ft. Beautiful soft pink..... $\frac{1}{2}$ oz. 20c; pkt. 5c
Helianthus, see Sunflower, page 54.

HELICHRYSUM, Everlasting or Strawflower (Annual)

1425 Height 2-3 ft. Large double flowers, 1-1 $\frac{1}{2}$ in. across, are produced all summer. Colors range from yellow, orange, red and rose to white. Splendid for winter bouquets..... $\frac{1}{4}$ oz. 25c; pkt. 10c

HELIOPSIS, Orange Sunflower (Perennial)

1428 Pitcheriana. 3-4 ft. Large golden yellow flowers, 2 in. across, are produced on long stiff stems. Brilliant in the garden and fine for cutting. Blooms all summer.....Pkt. 10c

HEUCHERA or Coralbells (Perennial)

1430 Sanguinea. 18-24 in. July-Aug. The plants form tufts of lobed leaves, from which rise tall, slender stems bearing dainty, bell-shaped flowers of coral-red. Beautiful in the border and for cutting, and a splendid plant for the rock garden.....Pkt. 15c

HOLLYHOCKS, Althea Rosea (Perennial)

Stately ornamental plants 6 to 8 feet high, indispensable for the background of perennial borders, and charming when grouped together in bold masses. Bloom in July and August.

1434 Newport Pink. Bright pink silky flowers, very large and double..... $\frac{1}{4}$ oz. 50c; pkt. 10c

1437 Double Mixed. Colors: yellow, salmon, rose, red and maroon..... $\frac{1}{4}$ oz. 50c; pkt. 10c

1440 Annual Everblooming. 3-5 ft. Valuable for sowing where hardy Hollyhocks have failed to survive. Start seed indoors, set plants out in May, and they will commence blooming in July. Mixed colors..... $\frac{1}{4}$ oz. 35c; pkt. 10c

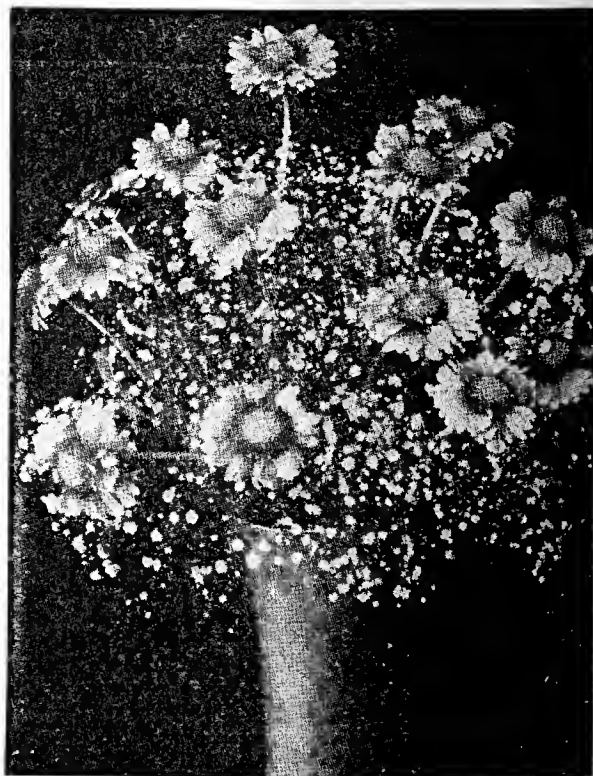
HUNNEMANNIA or Tulip Poppy (Annual)

1444 Height 18 in. July to Sept. Plants are bushy with fine feathery foliage and bright yellow cup-shaped flowers, 3 inches across. The petals are broad and crinkled.....Pkt. 10c



Kochia—Summer Cypress.

See description on page 51.



Gaillardia and Gypsophila (Baby's Breath).

ICE PLANT (Annual)

1446 *Mesembryanthemum Crystallinum*. 6 in. Has thick, succulent leaves covered with shining globules, resembling ice. Suitable for dry sunny positions and for the rock garden.....Pkt. 10c

KOCHIA, Summer Cypress (Annual)

1465 Height 2-2½ ft. Plants are erect, much-branched and densely pyramidal resembling small closely sheared evergreens. Foliage is feathery soft bright green, turning to red in fall. ¼ oz. 25c; pkt. 10c

LARKSPUR, Tall Branching (Annual)

Bloom quickly from seed sown in the spring, and their graceful flower-spikes furnish the finest cut flowers from early summer to frost. They thrive best in a sunny position.

1470 Double Ageratum Blue.

1472 Double Rose.

1474 Double White.

1471 Double Dark Blue.

1473 Double Shell Pink.

1475 Double Mixed.

Each of the above.....½ oz. 25c; pkt. 10c

Collection of 1 pkt. each above 5 separate colors, 40c.

1476 Los Angeles. Color rich salmon, overlaid with brilliant rose. Very large and double....Pkt. 15c
Perennial Larkspur, see Delphinium, page 49.

LATHYRUS, Everlasting Pea (Perennial Climber)

1480 *Latifolius*. 6-8 ft. A decorative vine for growing on a trellis or fence. The flowers are borne in large clusters all summer, and are splendid for cutting. Mixed colors, rose, white and crimson. Once established, the roots should not be disturbedPkt. 10c

LEPTOSIPHON (Annual)

1485 French Hybrids. 8-12 in. A charming annual for borders and beds. When planted in masses they form a sheet of trumpet-shaped flowers, ranging from yellow to rose and ivory. Bloom all summerPkt. 10c

LIATRIS, Gay Feather or Blazing Star (Perennial)

1481 *Pycnostachya*. 4 ft. Thick grass-like foliage and long narrow spikes of rich purple flowers from July to September. Much in demand for cutting purposes as the flowers last long in water. They may also be dried and used in winter bouquets.....Pkt. 20c

LINARIA MAROCCANA (Annual)

1486 Height 12-18 in. Flowers are small and dainty, resembling miniature snapdragons. The colors range through crimson and gold, pink, mauve, blue and rose. Bloom in about 8 weeks from seed and are excellent for cutting.....Pkt. 15c

LUNARIA or Honesty (Biennial)

1487 Height 2 ft. Has purple flowers followed by shiny silvery seed pods. It is called "Honesty" because the seeds can be seen through the pods. Very attractive in winter bouquets combined with *Physalis* and other Everlastings.....Pkt. 10c

LOBELIA, Crystal Palace (Annual)

1489 Height 6 in. Plants form compact little bushes covered with brilliant, deep blue flowers throughout the summer. Desirable for edgings, bedding and pot culture.....½ oz. 50c; pkt. 10c

LUPINUS, Hartwegi (Annual)

1493 Height 2 ft. Plants are of robust branching habit with deeply cut dark foliage, and tall graceful spikes of pea-shaped flowers in delicate shades of blue, lavender, pink and white. Fine for cutting. If cut as they mature the plants will continue to bloom½ oz. 25c; pkt. 10c

LUPINUS, Polyphyllus (Perennial)

1494 Height 3-4 ft. May be classed among the most beautiful of all hardy flowers. The plants form tufts of deeply cut dark green foliage, from which arise the stately spikes of bloom in delicate shades of blue, mauve, pink and yellow.....Pkt. 10c

LYCHNIS, Chalcedonica (Perennial)

1495 Jerusalem Cross. 2-3 ft. One of the brightest plants for the hardy border. Bears large heads of brilliant scarlet flowers, each blossom forming a Maltese cross. Blooms in spring....Pkt. 10c

MARIGOLD, Tagetes (Annual)

Of easy culture and exceedingly free flowering, Marigolds provide a wealth of color from early summer until frost. The African varieties are tall, and have uniformly large, yellow or orange-colored flowers, while the French are dwarf in growth with beautifully striped and spotted flowers.

Double African Marigolds

1500 Lemon Queen. 30 in. Large double quilled flowers of lemon yellow.....¼ oz. 30c; pkt. 10c
1501 Prince of Orange. 30 in. Immense double quilled flowers with ends of petals slightly frilled. Deep golden orange.....¼ oz. 30c; pkt. 10c

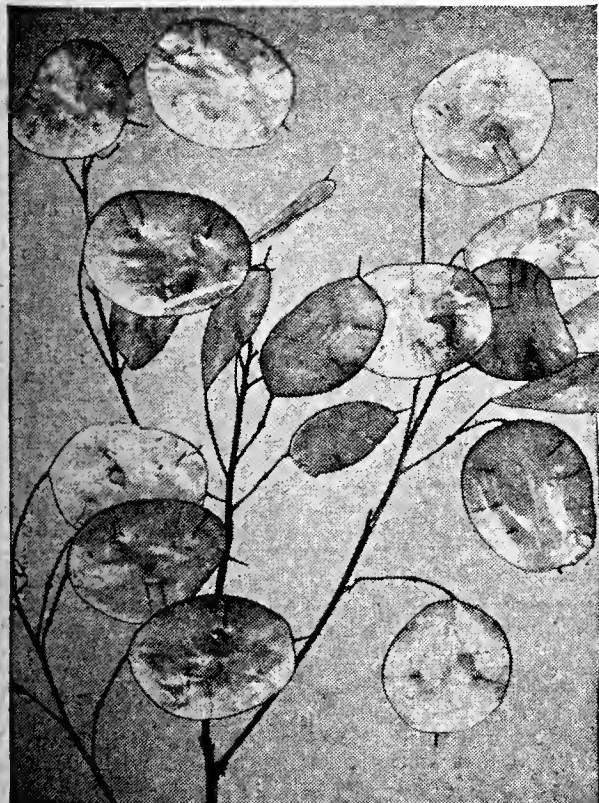
1502 Finest Mixed Varieties. All shades from pale yellow to deep orange.....¼ oz. 25c; pkt. 10c

French Marigolds

1504 Legion of Honor. 9 in. A single Marigold of great beauty. Flowers are rich golden yellow, marked with velvety brown. Best for edging.¼ oz. 30c; pkt. 10c

1505 Gold Striped. 8-10 in. Velvety maroon striped with gold.....¼ oz. 30c; pkt. 10c

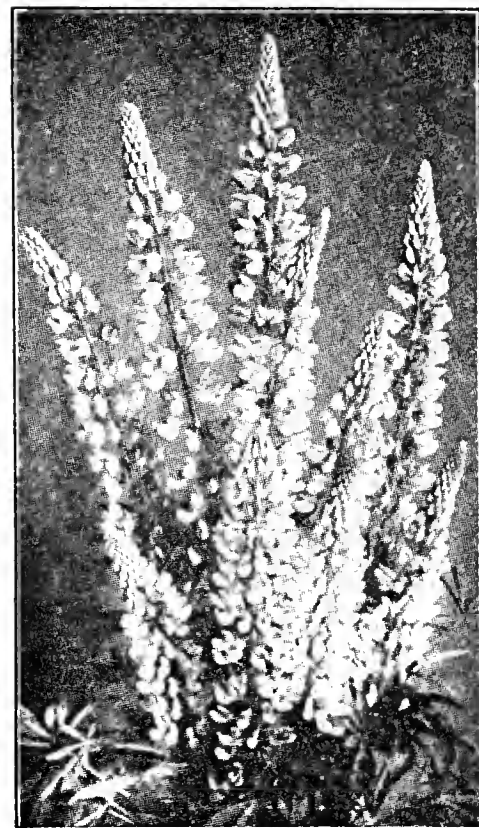
1506 Tall French Josephine. 3 ft. Bushy plants with large single flowers of dark brown, with an edging of gold. Petals have a rich velvety texture. Excellent for cutting..¼ oz. 30c; pkt. 10c



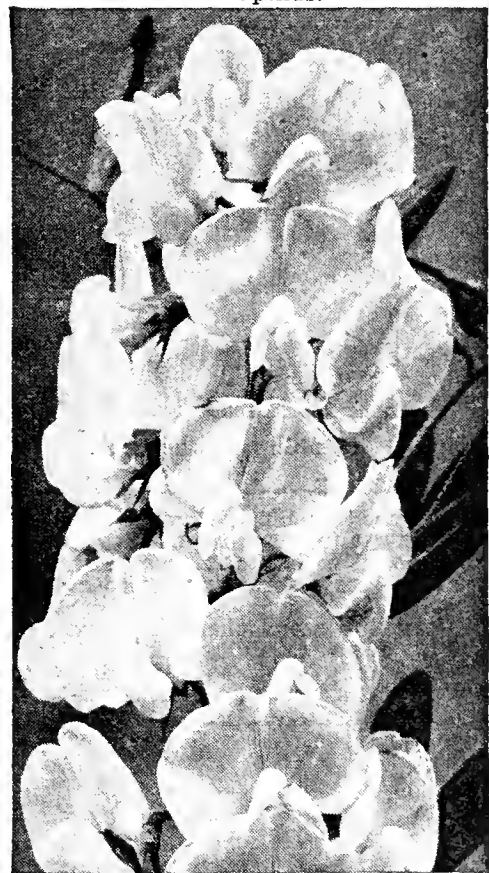
Lunaria—Honesty.



Euphorbia—Snow on the Mountain.
See description on page 50.



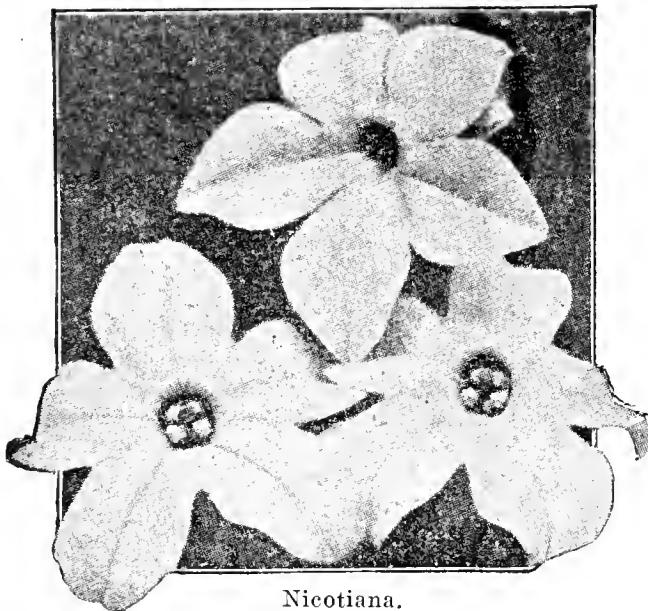
Lupinus.



Lathyrus—Perennial Pea.



African Marigold, Prince of Orange.



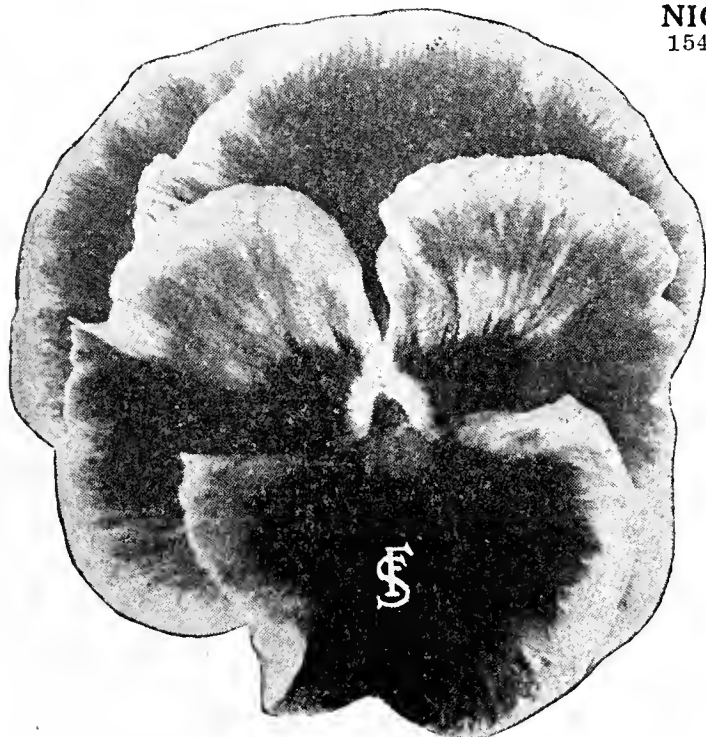
Nicotiana.



Climbing Nasturtiums.

The seed shells of Nasturtiums, Sweet Peas, Lathyrus and Morning Glories are very hard, and should be soaked in warm (not hot) water for 24 hours before planting to hasten germination.

Very fine seeds should be sown evenly and thinly on a carefully prepared seedbed and covered only with a little sifted sand or a very thin layer of peat moss.



Roggli Giant Pansy.

MARVEL OF PERU or Four O'Clock (Annual)

1528 Height 2-3 ft. Erect, bushy plants with dense glossy foliage and hundreds of long-tubed, funnel-shaped flowers of white, yellow, crimson or striped. They remain closed until 4 o'clock in the afternoon when the plants become a glowing mass of color.....Oz. 25c; pkt. 5c

MATRICARIA, Feverfew (Tender Perennial)

1512 Capensis. 18-24 in. Plants are bushy in growth, with finely cut leaves and clusters of small, tightly double, white flowers. Excellent for pot plants, bedding and cuttingPkt. 10c

MIGNONETTE, Reseda Odorata (Annual)

1516 Machet. 12-15 in. Immense compact spikes of blossoms with a delicate fragrant odor are produced throughout the summer and until late in the fall. Fine for cutting $\frac{1}{4}$ oz. 25c; pkt. 10c

MORNING GLORY, Ipomoea (Annual Climber)

Beautiful vines of luxuriant growth, covered with large, variously colored flowers all summer. Splendid for covering trellises, arbors and porches.

1454 Moonflower. Immense pure white fragrant flowers that open at night and on cloudy days... $\frac{1}{2}$ oz. 25c; pkt. 10c

1455 New Heavenly-Blue. Vines are a mass of lovely sky-blue flowers, $2\frac{1}{2}$ -3 inches across, from early summer to frostPkt. 15c

1456 Giant Japanese. Flowers are ruffled and fluted from throat to margin. Colors: red, rose, garnet, blue, purple, etc. $\frac{1}{2}$ oz. 20c; pkt. 5c

1458 Tall Purple. The old variety with purple flowers. $\frac{1}{2}$ oz. 20c; pkt. 5c

1460 Brazilian Morning Glory. Satiny rose-pink flowers of delicate texture..... $\frac{1}{2}$ oz. 25c; pkt. 10c

MYOSOTIS or Forget-Me-Not (Perennial)

1375 Height 4-9 in. Plants are of compact habit with large clusters of exquisite clear blue flowers. Flourish in moist shady positions. Require winter protection...Pkt. 10c

NASTURTIUM (Annual)

Furnish a gorgeous display of flowers from early summer to frost. The dwarf sorts are particularly adapted for beds and borders while the tall varieties are serviceable for covering stumps and fences or for trailing over rocks.

1570 New Double Golden Gleam. Plants form vigorous bushes of semi-trailing habit, the runners averaging 18 inches. When in bloom, the entire plant, including runners, is a blaze of golden yellow color. Flowers are $2\frac{1}{2}$ -3 inches across and very fragrant. They are borne on long stiff stems, excellent for cutting.....Pkt. 20c

1574 Dwarf Mixed. 1 ft. Giant flowers in a great variety of charming color combinations as well as the brilliant self-colored sorts..... $\frac{1}{4}$ lb. 60c; oz. 15c; pkt. 10c

1598 Tall Giant Flowering Mixed. 6-10 ft. Large velvety flowers of various colors are borne on tall stiff stems. Excellent for hanging baskets and window boxes or may be trained on fences..... $\frac{1}{4}$ lb. 60c; oz. 15c; pkt. 10c

NEMESIA (Annual)

1538 Strumosa. 1 ft. Charming annuals with attractive orchid-like flowers 1 inch across, ranging in color from rose, yellow, orange, and blue to red. Bloom all summer. Unexcelled for edging.....Pkt. 15c

NEMOPHILA, "Baby Blue Eyes" (Annual)

1537 Height 6 in. Blooms quickly from seed and continuously from spring until frost. Showy bell-shaped flowers in shades of blue, white and violet. Fine for edging and borders. Prefers a moist, partially shaded position.....Oz. 30c; pkt. 10c

NICOTIANA, Flowering Tobacco (Annual)

1540 Height 2-3 ft. Plants are of branching habit, and bloom continuously from early summer until frost. The flowers resemble petunias, but have a longer tube. They open toward evening and emit a heavy fragrance..... $\frac{1}{4}$ oz. 25c; pkt. 10c

NIGELLA, Love-in-a-Mist (Annual)

1545 Miss Jekyll. Height 18 in. Plants are compact and free-flowering with finely cut foliage and large semi-double flowers of a lovely cornflower-blue on long stems. $\frac{1}{4}$ oz. 30c; pkt. 10c

GIANT PANSIES (Perennial)

The seed may be started indoors in February or in a coldframe in March, in carefully pulverized rich soil. Sow seed thinly and cover lightly, keeping the ground moist with a spray. Pansy seed germinates slowly and grows best in a cool location with good drainage. Transplant to open ground in May.

If flowers are picked regularly, the plants will continue to bloom until frost. Protect with a mulch of straw or similar material in fall, and they will endure hard winters with perfect safety. For Pansy Plants see page 26.

1606 Bronze Shades. Large artistic flowers of finest form.....Pkt. 10c

1608 Purple and Blue Shades. Rich and velvety, of immense size.....Pkt. 10c

1609 Madame Perret. Lovely shades of pink, rose and wine.....Pkt. 10c

1610 Collection of 1 pkt. each of above three strains for.....25c

1626 Giants of California. Flowers of gigantic size and splendid texture in a very extensive color range.....Pkt. 20c

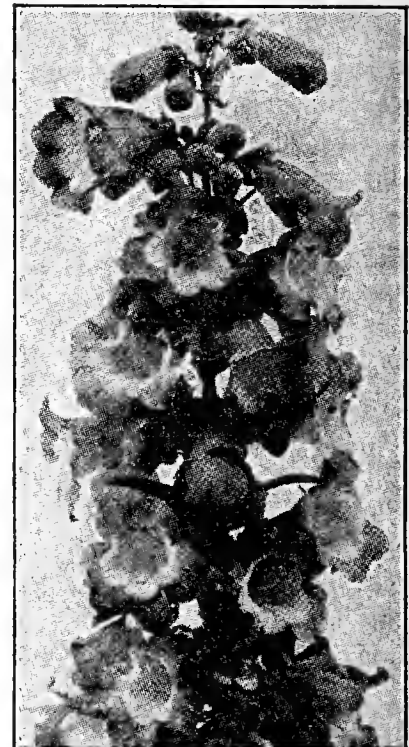
1628 Roggli Swiss Giants. Have created a decided sensation in floricultural circles. The plants are robust with very large flowers of heavy texture on strong stems. Colors are outstanding and distinct, with shades previously unknown.....Pkt. 25c

1629 Masterpiece or Ruffled Pansies. A remarkable strain of Giant Pansies with beautifully frilled petals, so full as to appear almost double. Rich colors, with dark velvety shades predominating.....Pkt. 15c

1631 Trimardeau Mixture. A superior strain, with robust deep-rooting plants and flowers of mammoth size and great substance. Mixed colors..... $\frac{1}{8}$ oz. 30c; pkt. 10c



Mignonette.



Pentstemon.

See complete description, page 53.

PENTSTEMON, Beard Tongue (*Perennial*)

1638 **Sensation.** 2 ft. Produce handsome stalks of long-tubed gloxinia-like flowers, often 2 inches across, in the most brilliant and varied shades of red, pink and violet. Bloom all summer and are splendid for cutting. If started indoors in March, they will flower freely the first yearPkt. 15c

PETUNIAS (*Annual*)

Petunias surpass all other plants for bedding purposes. They thrive in poor soil and under the most adverse conditions and bloom continuously throughout the summer until killed by heavy frosts. Seed started in the hotbed in April will produce blooming plants in June.

Giant Flowering Varieties

- 1644 **Giant Double.** For beauty of form and coloring, these surpass every other strain. The weaker seedlings produce the finest double flowers. Only a certain percentage of the flowers will be double, but the remainder will be choice single of giant size, some frilled.....Pkt. 30c
- 1655 **Ruffled Giants.** Flowers of this strain often measure 5 inches across, and are beautifully frilled and veined. Every color, from white and pale pink to deep purple is included in this mixturePkt. 25c
- 1656 **Pride of Portland.** An exquisite variety with enormous frilled flowers of deep rose-pink.Pkt. 25c
- 1657 **Balcony Petunias.** Of semi-trailing habit, particularly recommended for porch and window boxes. Colors include violet-blue, crimson, rose and white. Finest mixed.....Pkt. 20c

Bedding Varieties

- 1649 **Rose of Heaven.** Rich, brilliant rose, with inconspicuous white throat... 1/4 oz. 50c; pkt. 15c
- 1650 **Violacea.** A rich violet-blue..... 3/8 oz. 50c; pkt. 15c
- 1651 **F. S. & N. Co's Bedding Petunias.** A splendid showy mixture of dwarf sorts in a complete range of colors. They will furnish an unending supply of fragrant flowers all summer. 1/4 oz. 40c; pkt. 10c

For Petunia Plants, see page 26.

PHLOX DRUMMONDI (*Annual*)

Beautiful showy annuals of easy culture, producing a continuous supply of large flowers in a most wonderful range of colors. Unsurpassed for massing and bedding. If the seed pods are removed, the plants will bloom until cut down by frost. Height about 1 foot.

- 1660 **White.** 1662 **Pink.** 1664 **Scarlet.**
- 1661 **Violet.** 1663 **Buff.** 1673 **Star.**
- Each of the above..... 1/4 oz. 40c; pkt. 10c

1665 **SPECIAL COLLECTION.** 1 pkt. each of above 6 varieties for.....50c

- 1666 **Finest Bedding Mixed.** All colors..... 1/4 oz. 40c; pkt. 10c
- For Perennial or Hardy Phlox Plants, see page 32.

PHYSALIS, Chinese Lantern Plant (*Perennial*)

- 1642 **Franchetti.** 18-24 in. Plants form dense bushes and bear bright, orange-scarlet pods, resembling miniature Chinese lanterns. May be dried and used for winter bouquets. Very attractive when combined with Lunaria.....Pkt. 10c
- Pinks, see Carnation, Dianthus and Sweet William.

PLATYCODON, Chinese Bell Flower (*Perennial*)

- 1679 **Height 18-24 in.** Handsome compact-growing plants, bearing an abundance of broad, bell-shaped white or blue flowers from June to September. The flowers when in bud have the appearance of inflated balloons.....Pkt. 10c

POPPIES (*Annual*)

- 1691 **American Legion.** An improved variety of Flanders Poppy. Flowers are a brilliant orange-scarlet of enormous size, on long stout stems..... 1/4 oz. 25c; pkt. 10c
- 1692 **Giant Shirley (Silk or Ghost).** 1 ft. Beautiful satiny flowers, 4 inches across, with fluted, crinkled petals. Colors contains delicate shades of rose, apricot, salmon-pink and glowing crimson with occasional blues. Foliage is hairy and finely cut.....Oz. 30c; pkt. 5c
- 1704 **Single Mixed.** Especially fine for massing. Large flowers in a great variety of colors.....Oz. 25c; pkt. 5c
- 1705 **Double Mixed.** Immense double flowers in a wonderful mixture of colors....Oz. 25c; pkt. 5c
- California Poppy, see Eschscholtzia page 49.

POPPIES (*Perennial*)

- 1707 **Iceland Poppy (Nudicaule).** 1 ft. Plants are of graceful habit with bright green, fern-like foliage. They bear an endless profusion of brilliant cup-shaped flowers, with slightly crumpled petals of satiny texture. Mixed colorsPkt. 10c
- 1708 **Oriental Poppy.** 2-3 ft. For gorgeous coloring Oriental Poppies have few rivals among hardy plants. The flowers are often 6 inches across and are borne on tall stems. They produce a magnificent effect in the shrubbery or hardy border when in bloom.....Pkt. 10c

PORTULACA, Rose Moss (*Annual*)

Plants have thick creeping foliage covered with a profusion of small rose-like flowers in brilliant colors. They delight in a warm sunny position and sandy soil.

- 1712 **Single Mixed** 1/4 oz. 20c; pkt. 10c
- 1713 **Double Mixed**..... 1/4 oz. 75c; pkt. 10c

PRIMULA, Primrose (*Tender Perennial*)

- 1723 **Malacoides.** Charming winter-blooming house plants with handsome foliage and clusters of delicate lavender flowers, 1/2 to 3/4 inch across.....Pkt. 15c

PYRETHRUM or PAINTED DAISY (*Perennial*)

- 1726 **Hybridum.** 1-2 ft. Valuable hardy garden plants with beautiful daisy-like flowers in all shades of pink, rose and crimson. Their long flowering period, long stems and wonderful lasting properties make them very popular for cutting. Mixed colors.....Pkt. 15c

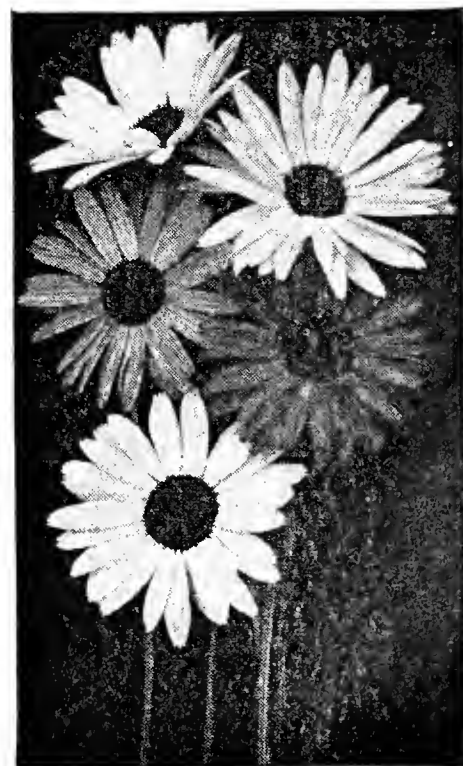
Flowers for Winter Bouquets should be cut just before they are fully open and hung heads downward in small bunches in a well ventilated, dry, shady place. Flowers suitable for drying are Acroclium, Gilia, Gomphrena, Gypsophila, Helichrysum, Liatris, Lunaria, Physalis and Statice.



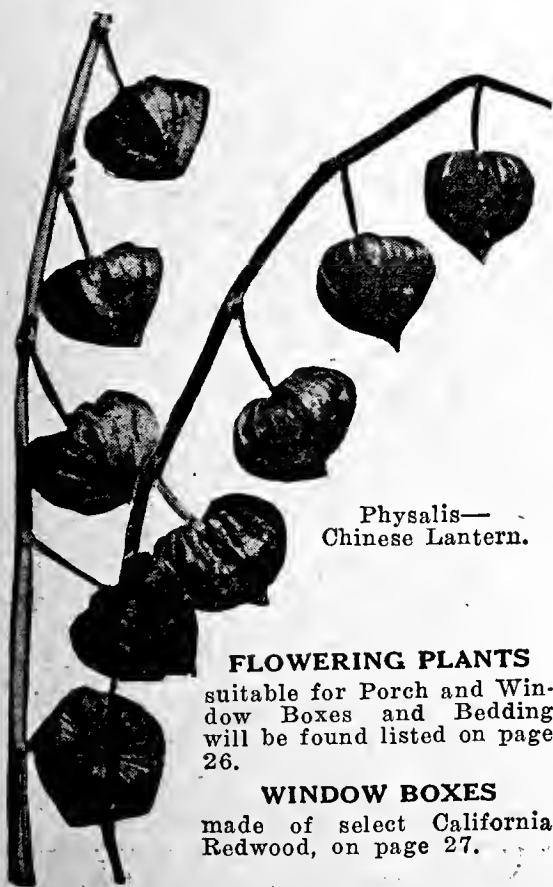
Bedding Petunias.



Oriental Poppy.



Pink, Rose and Red Pyrethrum.



Physalis—
Chinese Lantern.

FLOWERING PLANTS

suitable for Porch and Window Boxes and Bedding will be found listed on page 26.

WINDOW BOXES

made of select California Redwood, on page 27.

RICINUS or Castor Oil Plant (Annual)

1730 Red Spire. 6-8 ft. Foliage plants of luxuriant and rapid growth, valuable for backgrounds and screens, producing a rich tropical effect. The leaves are of enormous size, deeply lobed and conspicuously veined, dark green and bronze in color.....Oz. 25c; pkt. 10c

SALPIGLOSSIS, Painted Tongue (Annual)

1741 Height 2-2½ ft. Beautiful velvety petunia-like flowers, greatly prized for cutting. They range in color from various shades of purple and blue through red and yellow to creamy white, delicately veined and penciled with gold. Bloom from July to frost.....¼ oz. 50c; pkt. 10c

SALVIA or Scarlet Sage (Half-hardy Perennial)

Handsome summer and autumn-flowering perennials that should be grown as annuals. The brilliant flowers make it very effective for massing, bedding and cutting. Useful also for window box and pot plants.

1745 Splendens. 2-3 ft. Plants are much branched, with large spikes of bright scarlet flowers produced in profusion during the summer and fall. This is the old favorite bedding variety.¼ oz. 75c; pkt. 10c

1746 Fireball. 15-18 in. Compact plants with fiery scarlet flowers on massive spikes, erect and stiff; over 200 spikes to a plant is not unusual.....½ oz. 65c; pkt. 10c

SAPONARIA, Soapwort (Annual)

1749 Vaccaria Rosea. 2 ft. Produce a profusion of light graceful sprays of satiny-pink flowers. Charming in bouquets combined with other flowers.....½ oz. 25c; pkt. 5c

SCABIOSA, Pin-cushion Flower (Annual)

Showy in the garden and one of the finest annuals for cutting. Bloom continuously from early summer until frost, in a wide range of rich beautiful colors. They grow 2 to 3 feet high, with flowers on long slender stems; also known as Mourning Bride.

1750 Peach Blossom. Peach-blossom pink.

1754 Rose. Beautiful rose-pink.

1751 King of the Blacks. Reddish-black.

1755 Fiery Scarlet.

1752 Azure Fairy. Delicate lavender-blue.

1756 Golden Yellow.

1753 Shasta. Pure white of enormous size.

1757 Finest Mixed.

Each of the above¼ oz. 30c; pkt. 10c

SCABIOSA CAUCASICA (Perennial)

1758 Height 18-24 in. Handsome hardy plants that thrive in ordinary garden soil. The semi-double flowers are 2 to 3 inches across and are borne on long stout stems; color is an exquisite lavender-blue shading to deep blue. Exceptionally good for cutting.....Pkt. 15c

SCHIZANTHUS, Butterfly Flower (Annual)

1764 Height 18-24 in. Plants are of bushy luxuriant growth, with delicate, finely cut foliage and exquisite orchid-like flowers in a great range of bright colors, blotched and marked in contrasting shades. One of the daintiest of annuals.....Pkt. 10c

SOLANUM, Jerusalem Cherry (Annual)

1768 Compact, bushy house plants with small shiny leaves and many bright orange-scarlet berries. Grows 15-18 inches high, and is easily raised from seed. One of the best pot plants for winter decoration. Also known as Christmas Cherry.....Pkt. 10c

STATICE, Sea Lavender (Annual)

1769 Sinuata. 1-2 ft. Suitable for growing in rock gardens and charming when dried for winter bouquets. The flowers are produced in racemes on long, graceful stems. Colors: rose, blue and white; retains its true colors when dried.....½ oz. 20c; pkt. 5c

STOCKS, Early Giant Imperial (Annual)

An improved strain of Bismarck. The plants grow 24-30 inches high, and are of robust branching habit, with heavy spikes of bloom. The flowers are double and very fragrant. Bloom from late July until frost.

1771 Gold Ball. 1775 Royal Purple.

1772 Rose Pink. 1776 Lavender.

1774 Fiery Blood Red. 1777 Finest Mixed.

Each of the above.....Pkt. 10c

1778 Evening Scented Stock. (Matthiola Bicornis.) 1 ft. Rosy lavender flowers which fill the garden with a delicious perfume in the eveningOz. 30c; pkt. 5c

STOKESIA, Cornflower Aster (Perennial)

1780 Cyanea. 2 ft. One of the choicest flowers for the garden and indispensable for cutting. Plants are much branched and bear freely from July until frost the handsome lavender-blue flowers which measure from 4 to 5 inches across. Of easy culture, succeeding in any open, sunny positionPkt. 10c

SUNFLOWER, Helianthus (Annual)

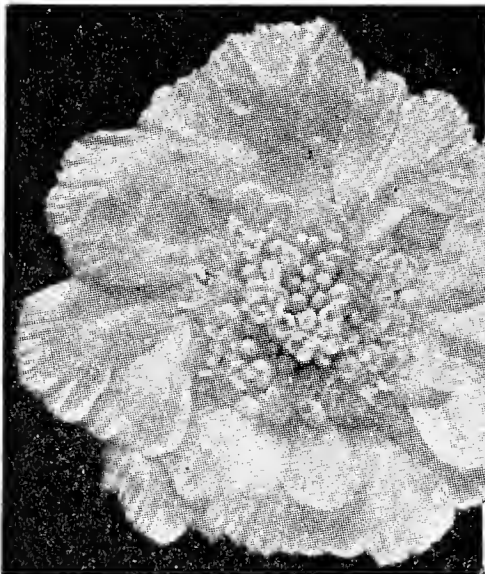
1830 Miniature Sunflower. 3-4 ft. Produce flowers in many shades of rose, bronze and orange. Bloom all summer and are useful for cutting. Foliage is small and graceful.....Pkt. 10c

1831 Red Sunflower. 4-6 ft. Curled petals in various shades of red and orange, beautifully shaded and bordered.....Pkt. 10c

1832 Mammoth Russian. 8-10 ft. Huge flat flower heads grown for the seeds which are fed to parrots, poultry and birds. Planted in the poultry yard the plants furnish shade, and when planted in the vegetable garden the stalks will serve as poles for climbing or pole beansLarge pkt. 5c



Statice Sinuata.



Scabiosa Caucasica.



Early Giant Imperial Stock.



Salpiglossis are greatly prized for cutting.

SPENCER SWEET PEAS

One ounce of seed will plant a single row 50 feet long.

The flowers of Spencer Sweet Peas are of immense size, beautifully waved, and usually borne 3-4 on long, substantial stems. The seed should be sown very early in spring (preferably in March) as Sweet Peas thrive best in cool, moist weather. Our leaflet with complete cultural directions will be sent free with order if requested.

THE FINEST ORCHID-FLOWERED VARIETIES AND NOVELTIES

- 1837 **BRILLIANT ROSE.** Huge flowers of a shining carmine-rose. Very choice and striking.
- 1838 **REFLECTION.** The most beautiful clear blue sort. Large flowers of great substance.
- 1839 **MARY PICKFORD.** Large waved flowers of cream-pink, suffused salmon. Extra fine.
- 1840 **OLYMPIA.** An improved deep rich purple. Enormous flowers of fine form.
- 1841 **WHAT JOY.** A new variety with beautiful frilled flowers of a deep, rich cream color.
- 1842 **PINKIE.** Deep rose-pink. Three to four large blooms on each stem.
- 1843 **SYBIL HENSHAW.** The most brilliant and dazzling scarlet ever introduced.
- 1844 **GOLD CREST.** Glistening orange, suffused salmon. Outstanding in every way.
- 1845 **POWERSCOURT.** Immense flowers of pure lavender. The best of this color.
- 1846 **FLAMINGO.** Glowing geranium red. A shade that compels admiration.
- 1847 **DEL MONTE.** Deep salmon-pink. One of the loveliest Sweet Peas grown.
- 1848 **AVALANCHE.** Very large pure white flowers of great substance on strong stems.
- 1849 **THE SULTAN.** Glossy deep velvety maroon. Large handsome blooms.
- 1850 **MAGNET.** Exquisite cream-pink. Lovely combined with Avalanche and Pinkie.
- 1851 **AMERICA.** Striped and flaked brilliant carmine on white ground. Huge flower.
- 1852 **FORTUNE.** Immense frilled flowers of a rich dark blue color.
- 1853 **RUDDIGORE.** A magnificent vivid scarlet. Of excellent form with long, stout stem.
- 1854 **COLORADO.** Bright golden orange. Combines well with What Joy or Gleneagles.
- 1855 **GLENEAGLES.** Clear porcelain blue. Flowers of enormous size with extra long stems.
- 1856 **YOUTH.** Large white flowers with pink picotee edge.

Each of the above.....Oz. 25c; pkt. 10c

Special Offers

- One pkt. each of any 5 above named varieties for.....40c
- One pkt. each of any 10 above named varieties for....75c
- One pkt. each of 20 varieties as listed above.....\$1.40

- 1865 **RAINBOW MIXED SPENCER SWEET PEAS.** Composed of Giant Waved Spencer varieties in a complete color range.....Lb. \$1.75; ¼ lb. 50c; oz. 25c; pkt. 10c, prepaid
- 1875 **EARLY FLOWERING SPENCER SWEET PEAS.** Come into bloom a month earlier than the other sorts, producing immense frilled flowers on long stems. Suitable for garden and greenhouse culture. Mixed colors.....Oz. 50c; pkt. 10c

SWEET ROCKET, Evening Scented Stock (Perennial)

- 1880 **Hesperis Matronalis.** 2-3 ft. Hardy herbaceous plants, very effective in the garden. They are covered with showy spikes of purple and white flowers which are deliciously sweet-scented after sunset. Splendid for cutting.....Pkt. 10c

Sweet Sultans, see *Centaurea* page 48.

SWEET WILLIAM; Dianthus Barbatus (Perennial)

One of our finest hardy garden plants, of easy culture and thriving in any good garden soil. Grow 12 to 18 inches high, with flowers in flat clusters on tall stiff stems.

- 1890 **Single Large Flowering Mixed.** Extra choice varieties.....½ oz. 35c; pkt. 10c
- 1891 **Double Large Flowering Mixed.** A splendid mixture.....½ oz. 50c; pkt. 10c
- 1894 **Pink Beauty.** Beautiful salmon-pink. Very large flowers.....Pkt. 10c
- 1895 **Scarlet Beauty.** Intense scarlet. Brilliant in the garden.....Pkt. 10c

TRITOMA, Red-Hot Poker (Annual)

- 1835 **Hybrid Mirabilis.** 2-3 ft. Also known as Torch Lily or Flame Flower. Produces striking orange-scarlet flower spikes from August until frost. Start seed indoors in March and set plants out in May. The roots may be taken up in late fall and stored like Dahlia roots.....Pkt. 15c

SACCO FERTILIZER contains all Food Elements required for the perfect development of Flowers. See page 72 for prices.



Tritoma—Red-Hot Poker Plant.

VERBENA, Giant Hybrid (Annual)

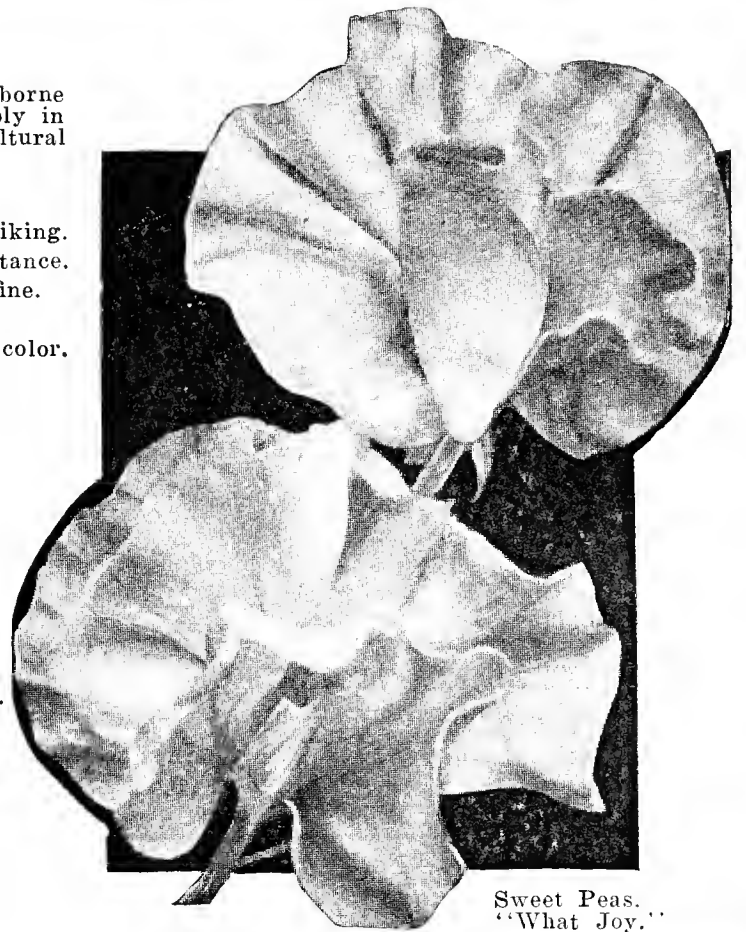
Unsurpassed for massing in large beds. The plants are of low spreading growth and are covered with brilliant flowers from June to frost. Average trusses measure 3½ inches across. Valuable for cutting.

- 1900 **Blue and Purple Shades.**.....Pkt. 10c
- 1902 **Golden Queen, Yellow.**.....Pkt. 10c
- 1904 **Giant Salmon Pink.**.....Pkt. 15c
- 1905 **Pink and Rose Shades.**.....Pkt. 10c
- 1906 **Italian Striped Mixed.**.....Pkt. 10c
- 1907 **Lucifer, Vivid Scarlet.**.....Pkt. 10c
- 1908 **Giant Hybrid Mixed Verbenas.** This mixture includes shades of blue, lavender, purple, yellow, rose and scarlet. Will provide flowers for cutting throughout the summer.....½ oz. 40c; pkt. 10c

VERONICA, Speedwell (Perennial)

- 1918 **Spicata.** 18-24 in. Showy plants with glaucous foliage and tall spikes of handsome blue flowers. Bloom in July and August. Beautiful in the garden and fine for cutting.....Pkt. 10c

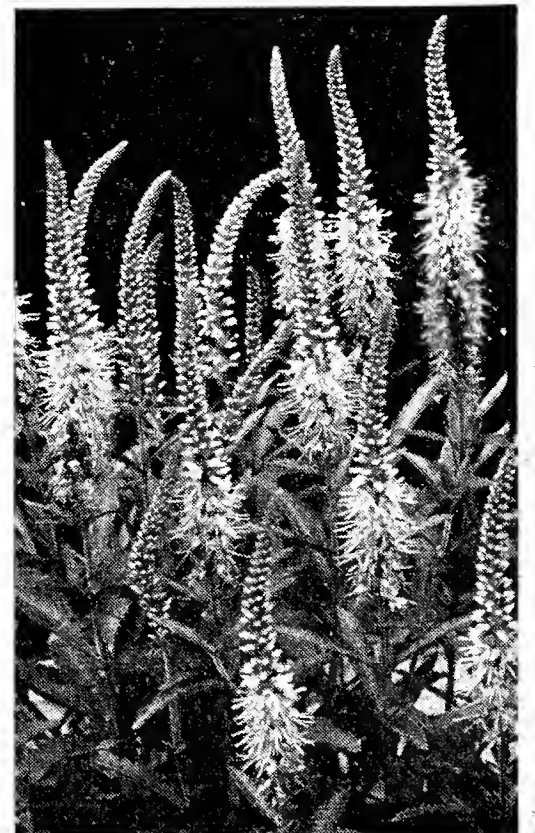
- 1928 **EVERLASTINGS.** The best strawflowers and other Everlastings in a fine mixture for winter bouquetsLarge pkt. 15c



Sweet Peas.
"What Joy."



Sweet William (Dianthus Barbatus).



Veronica has long spikes of violet-blue flowers.

ZINNIAS (Annual)

Gorgeous and showy in the garden, and unexcelled for cutting, Zinnias bloom from early summer until destroyed by frosts. For a brilliant color display they should be grown in large beds and masses. The plants are sturdy, bushy and well branched, and entirely free from insects and fungus.

Culture—Zinnias are not particular as to soil, but prefer a sunny location and plenty of moisture. When the plants are 2 or 3 inches high, they should be thinned out to stand 12-15 inches apart. If allowed ample room for proper development the flowers will be more completely double.

GIANT DAHLIA FLOWERED

The flowers are of enormous size, often measuring 4 inches in depth and 6 to 8 inches in diameter. The petals are broad and closely imbricated, giving the flower a massive appearance. Plants grow 3 to 4 feet high.

- 1931 **SCARLET FLAME**. Bright scarlet with a blending of orange.....Pkt. 10c
 1934 **CANARY BIRD**. A delicate shade of primrose yellow.....Pkt. 10c
 1936 **DREAM**. A beautiful shade of soft lavender turning to purple.....Pkt. 10c
 1937 **ORIOLE**. A magnificent orange and gold bicolor.....Pkt. 10c
 1938 **EXQUISITE**. Lovely light rose-pink with a darker rose center.....Pkt. 10c
 1939 **CRIMSON MONARCH**. Gigantic flowers of a rich crimson.....Pkt. 10c
 1940 **GIANT DAHLIA FLOWERED MIXED**..... $\frac{1}{4}$ oz. 50c; pkt. 10c

Collection of 1 pkt. each of above 6 named varieties for.....50c

GIANT DOUBLE MAMMOTH (California Giants)

An improved strain of the old Giant Show type with flowers often measuring 5 inches across. Plants are vigorous and healthy and grow about 3 feet tall.

- 1960 **VIOLET QUEEN**. Beautiful deep violet shading to purple.....Pkt. 10c
 1961 **DAFFODIL**. A new shade. Bright canary yellow.....Pkt. 15c
 1962 **ORANGE KING**. A wonderful shade of burnt orange.....Pkt. 10c
 1963 **SALMON QUEEN**. Fine salmon rose. A soft delicate shade.....Pkt. 10c
 1964 **GRENADIER**. New. A rich glowing deep red.....Pkt. 10c
 1965 **GIANT DOUBLE MAMMOTH MIXED**..... $\frac{1}{4}$ oz. 50c; pkt. 10c

Collection of 1 pkt. each of above 5 named varieties for.....45c

VARIOUS ZINNIAS

- 1968 **PICOTEE ZINNIA, GIANT DOUBLE MIXED**. Large double flowers, measuring 4 inches or more in diameter. Colors are: orange, yellow, pink and flesh with edges of petals serrated and tipped with a contrasting color which harmonizes with the flower. Provide variety in the Zinnia bed.....Pkt. 10c
 1969 **SCABIOSA FLOWERED ZINNIA**. Flowers form a disk with encircling guard petals and resemble annual Scabiosas. They are borne on tall stiff stems and are especially fine for cutting. The plants grow 3 feet high and bloom profusely. Mixed colors.....Pkt. 15c
 1970 **QUILLED ZINNIA ACHIEVEMENT, GIANT DOUBLE MIXED**. Beautiful large flowers, resembling Cactus Dahlias, with long narrow quilled petals. Colors include: salmon, rose, lilac, bronze and red, with reverse of petals light or dark lilac, making a wonderful color combination.....Pkt. 10c

DWARF ZINNIAS

- 1975 **LILIPUT, POMPON OR BABY ZINNIAS**. Unsurpassed for bedding and cut flower purposes. The plants form handsome little bushes 12 to 15 inches high, and are literally covered with small, very double flowers all summer and until killed by frost. Mixed colors..... $\frac{1}{4}$ oz. 30c; pkt. 10c
 1976 **RED RIDING HOOD ZINNIAS**. Height 1 ft. Plants are of compact bush form, covered with intense scarlet flowers not over an inch across. Very effective in solid beds and for edging, and especially recommended for cutting..... $\frac{1}{4}$ oz. 30c; pkt. 10c
 1977 **PUMILA PICOTEE DELIGHT**. Height 15-18 in. Dwarf plants with extra double flowers in a mixture of many attractive shades including salmon, buff, cream, golden-yellow and lavender. The petals are beautifully picoteed, ruffled and curled, giving the flowers a striking and dainty effect.....Pkt. 15c
 1978 **MEXICAN HYBRID ZINNIA**. Haagaena. 16 in. Very popular as a rock garden and border plant and splendid for cutting. Plants are dwarf and compact, bearing masses of double and semi-double flowers 1½ inches across, in a most unusual color range—rose tipped yellow, maroon tipped cream, yellow tipped red.....Pkt. 10c

VIOLA CORNUTA, Tufted Pansy (Perennial)

- 1919 Charming dainty flowers of free-blooming habit, which resemble the violet more than the pansy, with their clear bright coloring and bright yellow centers. The plants are half-hardy and require winter protection. Lovely as a border for tulips. Mixed colors.....Pkt. 10c

WALLFLOWER, DOUBLE (Annual)

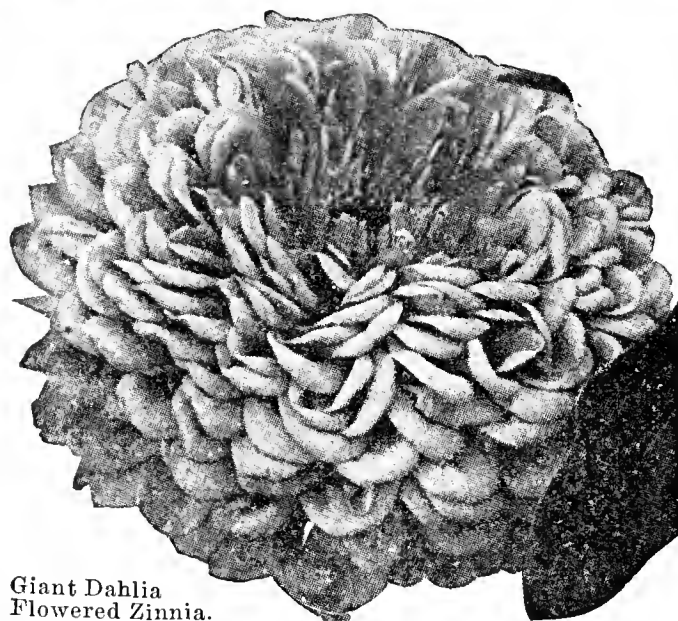
- 1920 Height 12-15 in. A splendid variety suitable for either bedding or pot culture with the main spike covered with double fragrant blossoms of brown and golden yellow. Seed started indoors in February will produce flowering plants in July. Mixed colors.....Pkt. 20c

WILD CUCUMBER (Annual Climber)

- 1925 *Echinocystis Lobata*. 20 ft. Grows rapidly and is thickly dotted with pretty white fragrant flowers, followed by ornamental prickly seed pods.....Oz. 25c; pkt. 5c

YUCCA, Adam's Needle (Perennial)

- 1929 *Filamentosa*. 3-5 ft. Plants present a striking tropical appearance with their strong sword-like foliage and tall spikes of creamy white flowers. Bloom in July. Very effective in the border and rock garden.....Pkt. 10c

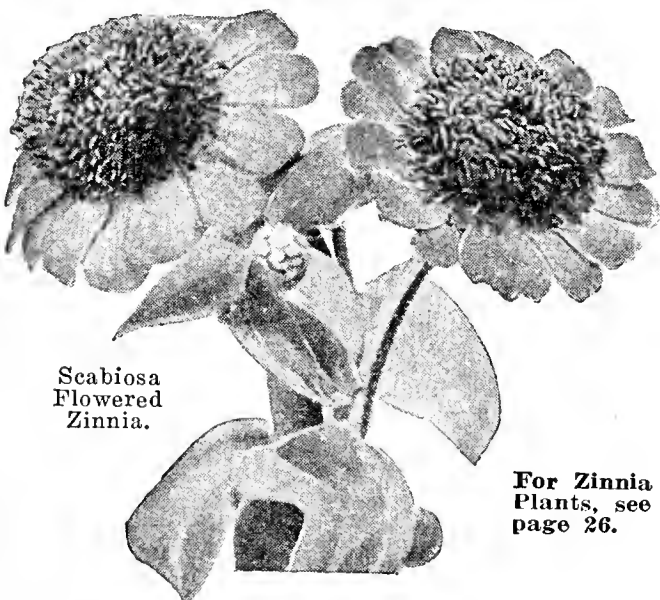


Giant Dahlia
Flowered Zinnia.

GIANT ZINNIA COLLECTION

- One Pkt. Each { Dahlia Flowered Mixed.
Double Mammoth Mixed.
Double Picotee Mixed.
Scabiosa Flowered Mixed.
Quilled Achievement Mixed.

45c
ppd.



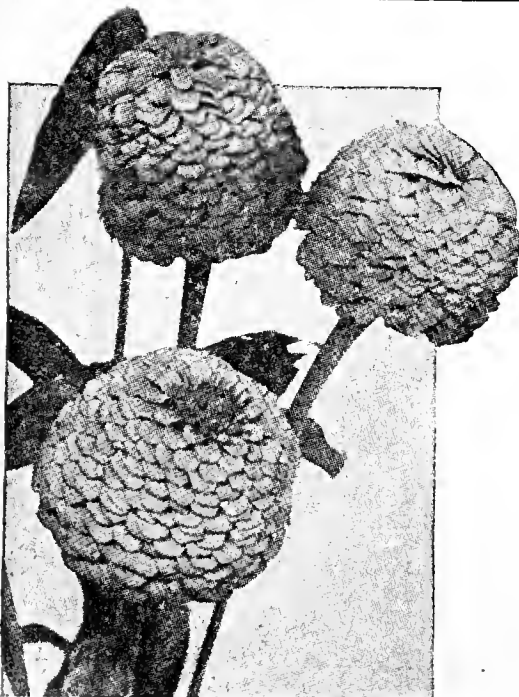
Scabiosa
Flowered
Zinnia.

For Zinnia
Plants, see
page 26.

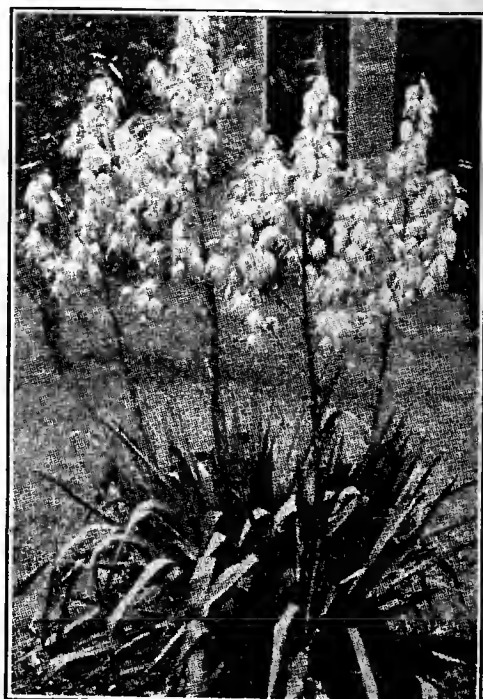
DWARF ZINNIA COLLECTION

- One Pkt. Each { Liliput or Pompon Mixed.
Red Riding Hood.
Pumila Picotee Delight Mixed.
Mexican Hybrid Mixed.

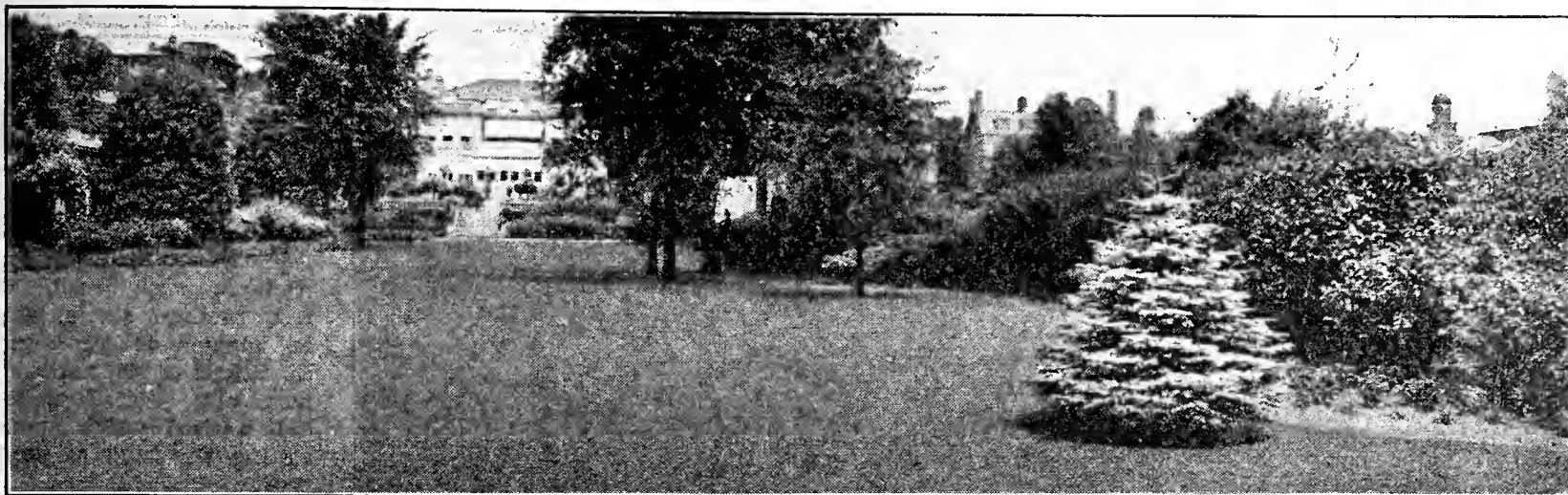
35c
ppd.



Liliput or Pompon Zinnia.



Yucca (Adam's Needle).



LAWN MAKING AND LAWN GRASS SEED

Preparation of the Soil. This work must be done thoroughly as the lawn is to be permanent. The soil should be spaded to a depth of one foot, removing all stones and roughage. Large plots may be plowed and harrowed. A fine seed bed is essential.

Fertilizer. After the plot has been spaded, apply a three to six inch coating of peat moss and a good commercial fertilizer, such as Sacco (see page 72), allowing 20 lbs. for every 1,000 square feet. Respade, mixing thoroughly with the soil. Barnyard fertilizer may be used in place of commercial fertilizer, but as it carries seeds of weeds and coarse grasses that grow with the Grass Seed, and are difficult to eradicate, we advise using commercial fertilizer.

Seeding. Grass Seed may be sown any time, but early spring sowing before the hot dry weather sets in, is best. Sow the seed on a quiet day, and broadcast two ways—using one lb. of seed for every 250 to 300 square feet—80 to 100 lbs. per acre. If possible, sow shortly before a rain. By sowing half the seed one way, and the other half the other way, a uniform, even stand is assured. Harrow or rake the ground well to cover the seed and follow with a roller to pack the soil. Water thoroughly and regularly in the evenings, until the sod is fairly well established. Sprinkling at random is worse than no water at all.

30-DAY LAWN GRASS. (See Front Cover.)

Our popular Lawn Grass for quick results. This carefully blended mixture contains the finest quick-growing grasses, together with permanent grasses that will establish a luxuriant lawn in 30 to 40 days under normal conditions. It represents the greatest value we have ever been able to give. It is by no means a cheap lawn mixture, but contains high quality Kentucky Blue Grass, White Dutch Clover, English Rye Grass and other quick-growing grasses. Our Special Price: 1 lb. 30c, 5 lbs. \$1.25, 10 lbs. \$2.35, prepaid. 25 lbs. \$5.00, 100 lbs. \$18.00, not prepaid.

SHADY NOOK MIXTURE

A mixture of hardy, quick growing grasses that thrive in shady places. Especially suited for patching up the lawn, or filling in barren places under trees, etc. Contains some of the best creeping grasses to build up a permanent sod. Price: Lb. 40c, 5 lbs. \$1.75, prepaid.—Not prepaid: Lb. 35c, 5 lbs. \$1.50, 20 lbs. \$5.60.

KENTUCKY BLUE GRASS

Kentucky Blue Grass will last for many years, as the plants spread from underground roots. It withstands hard wear remarkably well, forming a firm, tough sod. Sow as early as possible, to give it a good start before weeds spring up. Blue Grass is the best of all grasses for lawns, golf courses and parks. Price: Lb. 30c, 5 lbs. \$1.40, postpaid.—25 lbs. \$5.00, not postpaid.

WHITE DUTCH CLOVER—Used universally for rejuvenating or building up all lawns or worn-out pastures. Price: 1/2 lb. 30c, lb. 50c, 5 lbs. \$2.25, prepaid.—Not prepaid: Lb. 40c, 5 lbs. \$1.75.

GARDEN CITY LAWN GRASS

A Most Popular High Quality Mixture.

Our best all around lawn grass mixture, for general use. It contains the choicest grasses in proper combination for quick results, roots deeply, and withstands severe drought. This consists chiefly of Kentucky Blue Grass, Red Top, and White Clover, and is being sold by leading department stores with wonderful success. Price: Lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid: Lb. 30c, 5 lbs. \$1.40, 10 lbs. \$2.50.

CREEPING BENT GRASS

This grass makes a fine dense firm turf which withstands hard usage; it is ideal for lawn, terraces, and putting greens on golf courses because it makes a compact sod due to its spreading habit. It makes rapid growth in a year crowding out other grasses. Our seed is the famous "Coos County" strain, true to name and of finest quality. Sow 2 to 3 lbs. per 1,000 square feet. Price: Lb. 80c, 5 lbs. \$3.75, 10 lbs. \$7.25, prepaid.

SPECIAL GOLF MIXTURE

The best possible mixture for golf courses, to be used on fairways, tees, bunkers, etc. Contains Creeping Bent and other imported grasses, also, Brome Grass, Red Top, etc., properly blended to give quick and permanent results, and to withstand our hot, dry summers and severe winters. Price: Lb. 40c, 5 lbs. \$1.75, prepaid.—Not prepaid: Lb. 35c, 5 lbs. \$1.50, 20 lbs. \$5.60, 100 lbs. \$25.00.



IMPERIAL WEED PULLER

A very simple tool to eradicate weeds in the lawn or garden. Pulls them up, roots and all. No back-breaking job—simply push into the soil under the weed, at a 95 degree angle, and pull back straight—then out come weed, roots and all. Made of high grade steel, black enameled wide wooden handle. Price: 90c, prepaid. Not prepaid, 75c.

BALL-BEARING GRASS SHEARS

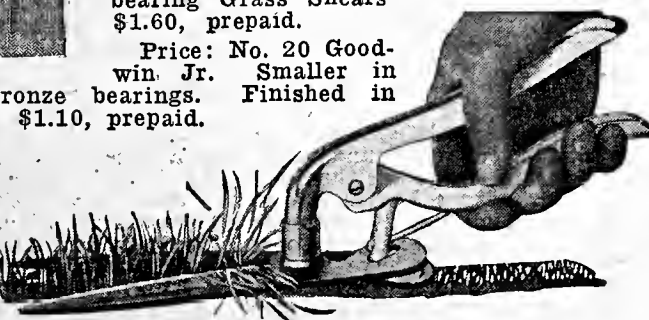
Blades are beveled and ground to a fine cutlery sharpness. Cutting edges 4 1/2 inches long. Rust resistant carbon knife blade steel.

Tension adjustment makes them easily adaptable to all cutting requirements—fine grass—coarse stalks—hedges or light pruning. The Goodwin is the only ball-bearing Grass Shear. Insures smooth action at all times and no binding or spreading of the blades in service.

Price: No. 10 Goodwin Ball-bearing Grass Shears \$1.60, prepaid.

Price: No. 20 Goodwin Jr. Smaller in size and has bronze bearings. Finished in brilliant orange. \$1.10, prepaid.

Special Prices on Grass Seed to Country Clubs, Cemetery Associations, Large Estates, etc. Ask for Quotations.



STANDARD HEDGE SHEARS

To keep the hedge looking trim—it simply cannot be done without Hedge Shears. The Standard serves dozens of purposes in trimming up trees, shrubs and plants. Has wide bevel blades, ground and polished. Tangs natural finish, bright steel ferrules, case hardened bolt and nuts with lock washer. Mahogany finish, 8-inch blades. Strongly built for years of service—and usually sold at a dollar more than our price. Price: \$1.50, prepaid.

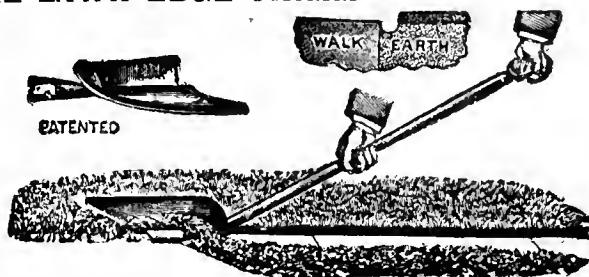
DROP FORGED PRUNING SHEARS

Every home has a thousand and one uses for pruning shears—shrubs, berry bushes, hedges, trees, plants—all need pruning. You cannot expect your shrubs to thrive or to improve the appearance of your place unless you keep them properly trimmed. Here is a good pruning shears—drop forged blade and handle in one piece. Volute spring. Will last a lifetime. Price: 75c, prepaid.



IMPERIAL LAWN EDGE TRIMMER

With this tool, the rough, straggling, overhanging grass along the edges of the walk can be trimmed in a few minutes. It plows a clean U-shaped trench, delivering the cutting on the sidewalk, making a neat and attractive appearance. Price: \$1.60, prepaid. Not prepaid, \$1.50.





Only Hardy Alfalfas Produce Consistently High Yields.

ALFALFA—The Wonder Crop

Alfalfa is one of the oldest known agricultural plants and yet it was only within recent years that the value of this wonderful plant was fully realized.

As a seed or cash crop, Alfalfa pays the biggest returns for labor and use of land. As a soil builder, Alfalfa will increase the value of your farm faster than any other crop. Alfalfa contains as much digestible nutrients pound for pound as bran, at a much smaller cost. For dairy cattle, Alfalfa hay, corn fodder and a small amount of ground oats make an ideal ration. For fattening beef cattle, Alfalfa has no equal. 1,000 lbs. of grain will produce 100 lbs. of beef on mature cattle with the ordinary roughages. If good Alfalfa hay is fed with corn, the amount of grain required will be reduced nearly one-half. Statistics show that 776 lbs. of pork will be produced on one acre of Alfalfa. For good pasture results, Alfalfa sown with other grasses will make an ideal feed.

There are numerous varieties of Alfalfa, and others are being introduced each year. Many of them have merit for certain localities, but for the Northwest, Grimm and Cossack are greatly to be desired. Dry Land Alfalfa seed from the Dakotas, Montana and Idaho has proven hardy, especially when it comes from fields 15 to 30 years or more old as our seed does.

GRIMM ALFALFA—The Hardest Alfalfa Known

Grimm Alfalfa was introduced by Wendelin Grimm in Carver County, Minnesota. Mr. Grimm saved the seeds from those plants that did not winterkill and reseeded his field so that he eventually had a perfect stand. This variety was thoroughly investigated and found to be exceptionally hardy and was named Grimm in 1903. Every field of genuine Grimm Alfalfa is traceable back to the original field of Carver County, so when we offer you Grimm Alfalfa you can be assured that it is the same hardy type grown for 70 years in Carver County. Grimm

Alfalfa has more lateral or branching roots than will be found on Common Alfalfa. This characteristic undoubtedly plays a big part in its hardiness, enabling it to withstand soil heaving, freezing and thawing better than many varieties having only one tap root. The blossoms of Grimm are variegated from white to a very dark with yellow and purple predominating.

Grimm Alfalfa is so valuable a variety in the Northwest that it should be grown in preference to all others.

REGISTERED AND STATE SEALED GRIMM

This name is used to describe Grimm Alfalfa which is grown on fields that have been registered, inspected, graded and sealed by state authorities. It represents the very best in Grimm Alfalfa. We offer Registered and State Sealed Grimm from Montana, South Dakota, Minnesota and Idaho. Price: Per lb. 50c, postpaid. See Blue Figure Price List for prices on larger quantities.

CERTIFIED OR GROWER'S AFFIDAVIT GRIMM

Not for sale in Minnesota and Wisconsin

This represents genuine Grimm which is covered by a grower's affidavit showing that the seed traces back to Registered Grimm fields. We carefully inspect the fields which produce this seed and we know that it is dependable. We offer Grower's Affidavit Grimm from the states of Minnesota, Montana and South Dakota. Price: Per lb. 40c, postpaid. See Blue Figure Price List for prices on larger quantities.

BLACK HILLS GRIMM

State Registered and Sealed and Certified Grower's Affidavit Strains. We have specialized in Black Hills Grimm Alfalfa Seed for many years as this section of South Dakota is the natural Alfalfa country and the plants are subjected to very rigorous climatic conditions making them entirely hardy and suitable to all sections of the country. Growers know that they can depend upon our strains of Alfalfa Seed as they come from recognized clean Grimm fields that have had careful inspection. Black Hills Grimm has been proven definitely to be as hardy a strain as exists. A State Certificate or Grower's Affidavit accompanies each shipment. Price: Per lb. 40c, postpaid. See Blue Figure Price List for prices on larger quantities.

MONTANA GRIMM

State Registered and Certified Grower's Affidavit Strains. This strain has proven to be as hardy as any known strain of Grimm. A rigid inspection system is carried on by the Montana authorities which gives assurance to the buyer that the seed is not only genuine Grimm, but will be free from noxious weeds and mixtures of other crops. A State Certificate or Grower's Affidavit accompanies each shipment.

For Your Own Protection Buy Only U. S. Verified Alfalfa

The United States Seed Verification Service gives to the buyer of Alfalfa Seed, proper assurance that such seed was produced where stated on the Verified Origin Seed Certificate attached to each bag. This service was inaugurated by the Government when it was found that unscrupulous seed dealers were substituting strains that were non-hardy, or otherwise unadapted, in place of those that were particularly adapted to certain sections of the country.

The Government has authorized certain seedsmen who meet with the

prescribed qualifications to be Verified Origin Dealers. We have been appointed as such and any Alfalfa Seed that we send to you will be sealed and tagged, either with the United States Verified Origin Certificate, or with a Certificate of the State authorities in which the seed is grown which the Government recognizes as a Verified Origin Certificate. This will safeguard you so that you can buy Alfalfa Seed, knowing that it will positively have been grown in the state so designated on the tag. Remember we are Verified Origin Alfalfa Dealers. Look for the Verified Origin Seed Tag or an authorized State Tag on each bag.

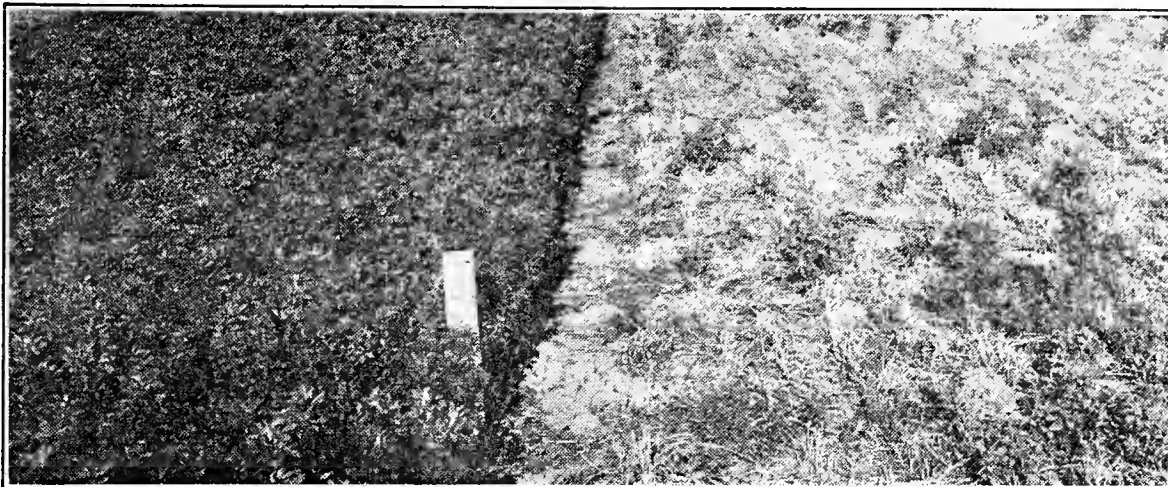
The 1932 crop of Alfalfa Seed is one of the smallest ever produced. Good quality, hardy northern-grown seed will be in great demand. There will be much "bootleg" Alfalfa and Red Clover Seed offered as hardy northern-grown seed, trucked in from southern states, which will not be adapted to the severe climatic conditions of the north. Be sure to buy only United States Verified Origin Seed which assures you of getting the kind of seed that you need.



HARDY NORTHERN GROWN ALFALFA

Alfalfa Pays Best of All Crops

1. Alfalfa is easier to start than clover.
2. It withstands drought because of its long penetrating roots.
3. It is the most nutritious hay for livestock. Feed with corn or grain for balanced ration.
4. It makes dairying pay better.
5. It also makes good green feed for poultry.
6. It is the best of all soil builders.
7. It exterminates weeds, by crowding them out.
8. Good alfalfa seed brings a good price.
9. It is unequalled for hog pastures. Sow in 2 plots and change hogs from one to the other between cuttings. You can raise 3 crops of hay and never miss the alfalfa eaten by the hogs.



Hardy Grimm on the left; non-hardy seed on the right.

DRY LAND ALFALFA

Dry Land Alfalfa is the name given to those varieties that are designated as the Common types. Seed production takes place in the drier sections of the United States which are peculiarly adapted for such a purpose. These dry regions are subjected to extremes of heat and cold and for a good many days during the winter are not even protected with a covering of snow. Alfalfa varieties grown under such conditions for 15 to 25 years or more without winterkilling must be hardy. We list a number of these varieties that are well adapted to Northwest conditions and we can highly recommend them, especially for a short stand of 4 to 5 years.

DAKOTA NO. 12

This is the most commonly grown variety of Dry Land Alfalfa since it has given the best of results on all types of soil and under all climatic conditions. Our seed stocks come from fields that have been in Alfalfa 25 to 30 years or more and the plants which endure the extremes of hot summers and severe winters and dry, high altitudes are thoroughly hardy. Only a fair crop of seed of this variety was harvested because of the dry season and consequently, there will not be an oversupply. As Dakota No. 12 is always in great demand, we suggest placing your orders as early as possible. Price: Lb. 35c, postpaid.

MONTANA COMMON

This strain resembles Dakota No. 12 in hardiness, yields and the quality of hay. The conditions under which it is grown are as severe as any found in this country and consequently only those plants that are hardy have been able to survive. We offer you seed from fields that have been established for many years and we can recommend this variety for Northwest conditions. Poor growing conditions have cut down the yields of Montana Alfalfa seed very greatly and consequently there will be only a moderate supply available. Price: Lb. 35c, postpaid.

NORTHWESTERN ALFALFA

This is a strain of Alfalfa which can be depended upon for the production of large crops of hay or pasture and has proven to be well adapted in the northern part of the country, especially where there is a good snow protection during the winter. Throughout the Corn Belt states there is a very large demand for this variety since it yields a large tonnage of hay. Our seed is grown in Montana and Idaho. Price: Lb. 35c, postpaid.

VARIEGATED ALFALFA

For Sale in All States.

Variegated Alfalfa is of a type very similar to Grimm with blossoms having a color range of white, yellow and purple. It is thought by many to be of the same origin as Grimm but no definite records of the origin were kept so it cannot be definitely stated from what variety it came. It has shown itself to be completely hardy in the most severe climate of Minnesota, the Dakotas and Montana and can be recommended as being very desirable for seeding in any part of northern United States where winter hardiness is essential. Price: Lb. 40c, postpaid.

We quote prices on small quantities of Alfalfa postpaid. For prices on larger quantities, see Blue Figure Price List.

MINNESOTA GROWN CLOVER SEED

Only Northern Grown Clovers can be depended upon for hardiness



Master Farmer Seeds.

This year more than ever before, the necessity for planting Clovers for hay and pasture is very evident. For building up the soil and maintaining fertility, or producing profitable hay and pastures, Clovers cannot be surpassed. Clovers and other legumes must be grown in order to make present-day agriculture profitable. Farmers everywhere are urged to reduce their acreage of Wheat and plant more Clovers, Alfalfa, Soy Beans, Field Peas, etc. By so doing, feed for livestock will be produced more economically, and the soil fertility will be maintained or built up, and the foundation laid for future prosperity.

We know that there will be a great demand for Clovers in all sections of the Northwest. Prices will be the lowest in years, but we urge you to make certain that the seed you buy is Minnesota grown, for it is in Minnesota that the hardiest seeds are produced. Seed from central and southern United States is not hardy in the Northwest.

Only the very finest seeds are sold by us and are guaranteed free from noxious weeds. If you want the best which is always the cheapest in the long run, be sure that you get "Master Farmer" Brand Seeds and you will know what results can be expected.



Master Farmer Seeds.

MEDIUM RED CLOVER

Medium Red Clover fits better into crop rotations than any other legume. It will increase the yield of succeeding crops, besides furnishing many tons of hay of high protein content. The first crop is usually cut for hay, before it comes into full bloom. The second crop may be cut for hay or seed or turned under, to fertilize the soil.

Red Clover is a biennial which means that it will grow for two seasons only and then must be reseeded. It is adapted to any well drained soil free from acidity and is better for general northwest conditions than any other clover. It furnishes luxuriant pasture and hay for cattle but is not quite so good for horses.

Sow Red Clover at the rate of 10 lbs. per acre with small grain or flax. Use about one-half or two-thirds of a normal seeding of grain or flax so as not to smother the clover. We use a clover seed attachment to the grain drill, sowing the seed ahead of the drills and cover it lightly with a harrow. Price: Lb. 35c, postpaid.

MAMMOTH CLOVER

Extremely hardy, and valuable for fertilizing poor soil which is too low and heavy for growing Red Clover. It makes the best permanent hog pastures, seldom freezing out, and produces a large crop of hay, as much as 3 to 5 tons to the acre. Sow 5 to 6 lbs. per acre, with small grain, for plowing under. For a hay crop, sow 8 to 12 lbs. per acre. Grows on acid soil where Medium Red and Alfalfa fail. Yields again as much as Medium Red Clover, though the hay is rather coarse. Price: Lb. 35c, postpaid.

See Blue Figure Price List for Quotations on All Farm Seeds.

ALSIKE CLOVER

Alsike Clover has the same soil-building properties as Red Clover, storing nitrogen in the soil, thereby increasing the yields of succeeding grain and corn crops from 25 to 50%. It is a true hardy perennial, with fiber instead of tap roots, and is not injured by thawing and freezing.

Alsike can be sown on soil that is slightly acid or sour, where lime cannot be applied, and where other clover or alfalfa will not grow. It can be sown on heavy, wet, or low soil that sometimes becomes waterlogged, and also endures drought well.

It makes better hay than Red Clover, because of its fine smooth leafy foliage. Its feeding value is nearly equal to that of alfalfa. It makes very fine pasture, as it is extremely hardy.

The seed of Alsike is very fine, therefore, only 7 or 8 pounds per acre are required. As a seed crop, it is often more profitable than Red Clover. It is cut for seed when two-thirds of the heads are ripe.

Alsike Clover has its place in the crop rotation the same as Red Clover and for best results is usually reseeded at the end of two years' growth. Price: Lb. 35c, postpaid.

WHITE CLOVER

Best for lawns and pastures. White Clover is sown mostly in mixture with other grasses, especially with Blue Grass, for lawns, golf grounds, also for pastures for sheep and cattle. It thrives best in moist soil containing lime and considerable humus, but is also grown on sandy soil which is not too loose and dry. For lawns sow 5 to 6 lbs. mixed with grass seeds, to the acre. Price: Lb. 50c, 5 lbs. \$2.25, prepaid.

SWEET CLOVER

THE GREAT SOIL BUILDER AND FORAGE CROP



SWEET CLOVER AS A HAY CROP

For pastures and hay, it is second only to alfalfa. It may grow from 1 to 3 ft. high the first season and may be clipped for hay or pastured lightly. It grows very dense and rapidly during the second year. If it is to be cut for hay, this should be done early in the season before the blossoms appear and the stems become woody.

Cut Sweet Clover 6 to 8 in. above the ground to avoid damaging the plants. Allow the hay to wilt a few hours after cutting, then place upright in small cocks until it is dry enough to stack. Handle carefully to prevent shattering of leaves.

Sweet Clover has a great feeding value, containing about 68 per cent protein, compared to alfalfa having 70 per cent and red clover 46 per cent. One acre furnishes sufficient pasture for 2 to 4 cows throughout the season. Cattle rarely bloat on it.

Use 15 lbs. of scarified seed per acre, with a nurse crop of one-half the usual seeding of oats or wheat, or sow in the spring on fall sown wheat or rye. Flax also may be seeded, using about 28 to 35 lbs. per acre. Firm the seed bed well after planting to aid germination. It is absolutely necessary that Sweet Clover be inoculated with Nitragin or Humogerm unless the field previously has been inoculated.

WHITE BLOSSOM SWEET CLOVER

This makes the rankest, tallest growth of any clover, producing the biggest hay crops and most luxuriant pastures. Because of its dense growth and the great size of its root system, it is the best soil enricher and green fertilizer. It is the best crop to grow to prepare the ground for a stand of alfalfa. The plant looks much like alfalfa, especially when young, but the leaves are not quite as smooth, and taste slightly bitter. It forms a main stem from which the side branches grow, while in alfalfa the crown sends up numerous shoots. It makes even better pasture for cattle than alfalfa because they do not bloat on it.

White Blossom Sweet Clover is cheaper to grow than alfalfa and fits perfectly into any crop rotation.

Our seed is of fine quality, free from foul weed seeds, and of highest germination. Price: Lb. 20c, 5 lbs. 75c, postpaid. See Blue Figure Price List.

GRUNDY COUNTY SWEET CLOVER

Grundy County Sweet Clover is preferred by many farmers since it does not grow quite as tall as the common White Blossom variety and it produces finer stems and a greater number of leaves, making it better adapted for hay purposes. It matures earlier so that the hay crop can be cut before the small grain is harvested. It produces a seed crop earlier than other varieties and this is an advantage in many localities that are subjected to early frosts. The hay cures more rapidly than the common tall variety and is very palatable. Grundy County Sweet Clover makes an excellent pasture but it does not last as late in the season as the common tall variety. Price: Lb. 20c, 5 lbs. 75c, postpaid.

SWEET CLOVER AS A SOIL BUILDER

Sweet Clover is now a leading crop in the United States. The acreage has steadily increased to the point where every progressive farmer has a portion of his land devoted to this valuable crop. As a true biennial legume, it fits in with any crop rotation, the same as Red Clover, besides yielding a very large return of hay and pasture.

Sweet Clover is now a necessity for live stock, especially dairy cattle. It grows on clay, sandy, alkaline or gumbo soils, it prevents drifting on shifting sandy soil. A hardpan subsoil is loosened by the heavy penetrating roots, allowing the necessary aeration and depositing large quantities of humus and nitrogen. Sweet Clover is a rank, dense grower of great value in exterminating weeds such as Quack Grass, Thistle, etc. It grows rapidly the second season, obtaining a height of 3 to 8 ft., depending upon the variety. It puts the land in shape for alfalfa and other crops by holding the weeds in check and depositing nitrogen in the soil.

YELLOW BLOSSOM SWEET CLOVER

This variety is dwarfier, finer and more spreading than the white. It makes a very fine quality hay and pasture. Yellow Blossom Sweet Clover is 10 to 15 days earlier in maturing its seed, and where seasons are very short or unfavorable, there is a decided advantage in sowing this strain.

It can be cut for hay very early, and close to the ground, whereas the white must be cut high. It is also excellent for bees, supplementing the use of the white variety, and extending the season, on account of its earliness. Price: Lb. 20c, 5 lbs. 75c, postpaid. See Blue Figure Price List.

HUBAM ANNUAL SWEET CLOVER

Hubam has come rapidly to the front as an emergency pasture and hay crop to be sown in seasons where drought, freezing injury or other adverse conditions have wiped out pastures and meadows, leaving the farmers without any definite hay prospects. Hubam is a rapid grower and once it is well established can be pastured as you would pasture the biennial varieties of Sweet Clover.

Hubam is an annual legume, the seed of which resembles that of White Blossom Sweet Clover. It is best suited for the Corn Belt section. It grows from 3 to 7 ft. high, depending upon soil and climatic conditions. It will produce as much as 3 tons of hay per acre, cut just before blossoming time. It grows on any good non-acid soil, and should be sown the same as other sweet clovers. Hubam will produce a seed crop in this latitude, in a long, favorable growing season. Price: Lb. 25c, 5 lbs. \$1.00, postpaid. See Blue Figure Price List.

"Sweet Clover—The Sweetheart of the Northwest," is the title of an interesting and valuable booklet published by the International Harvester Co. Sent free with orders for Sweet Clover upon request.



When ordering, always specify kind of seed.

Alfalfa, All Clovers
Size Retail
½ bu. \$.50
1 bu.90
5 bu. 4.00

Peas, Vetch, Beans, Austrian Winter Peas
Size Retail
½ bu. \$.40
1 bu.60
*1½ bu.90
5 bu. 2.50

**100 lb. size, Packed only for Vetch and Aust. Pea

Leads in High Germ Count Dated—Fresh Each ear

INOCULATOR PRICES

Soy Beans, Cow Peas Lespedeza (Hulled)
Size Retail
1 bu. \$.40
2 bu.70
5 bu. 1.50
10 bu. 2.50

Garden NITRAGIN for Peas, Beans, Sweet Peas
Inoculates from 1 oz. to 8 lbs. seed, Price 25c

INOCULATE ALL LEGUMES (Alfalfa, Clovers, Peas, Beans, Soy Beans and Vetch)

All legumes should be inoculated to be assured of best results. They draw nitrogen from the air which is the chief plant food and deposit it in the small nodules on the roots of the plants. Thus nitrogen is stored up in the soil, enriching it and stimulating the growth of the plants. The inoculated seed produces heavy clusters of nodules.

Nitragin and Humogerm are the two outstanding inoculants. They are put up in cans of convenient size bearing the date of packing. To those who want the original legume inoculator and wish to be assured of the finest quality, we recommend Nitragin. We also offer Humogerm, which is a high quality inoculator, far better than most inoculators on the market and yet its sells in competition with the cheaper products. Whether you use Nitragin or Humogerm, you will have excellent results. When ordering, always state what kind of seed you want to inoculate.

FRESH FOR YOUR PROTECTION



PRICES All Clovers, Alfalfa (Small Seeds)
Size Inoculates Price
Lbs. Seed
½ Bu. 30 \$.35
1 Bu. 60 .50
2½ Bu. 150 1.00
10 Bu. 600 4.00

Peas, Vetch, Beans, Cow Peas, Soy Beans, Peanuts, Lespedeza (Large Seeds)
Size Inoculates Price
Lbs. Seeds
1 Bu. 60 \$.35
2 Bu. 120 .50
5 Bu. 300 1.00
20 Bu. 1200 4.00

When Ordering, Always Specify Kind of Seed.

Descriptive Circulars Free on Request.

HARDY GRASSES

REED CANARY GRASS (*Phalaris arundinacea*)

The Peat and Swamp Land Wonder Grass

There is a reason for the great popularity of Reed Canary Grass. It has reclaimed many worthless swamps and is making real profits for hundreds of farmers. It is especially adapted to boggy soils, swamps and peat marshes.

Reed Canary is not a new Grass, but has been grown to a small extent, in central Minnesota for the past 15 to 20 years. Only recently the Minnesota Experiment Station conducted investigations and carried on a project in Waseca and Le Sueur Counties, the results of which are truly amazing.

Six to Ten Tons of Hay Per Acre

Such yields are not unusual. The hay has high feeding value and is eagerly consumed by all cattle. One acre will pasture three to four dairy cows throughout the season.

In addition, there has been an unusual demand for seed of Reed Canary Grass so that growers invariably made a fine profit on their seed crops as well.

A Hardy Perennial Grass

Reed Canary Grass is a perennial and will continue to live until broken up. The plants are cold resistant—both as seedlings and in the mature stages. While Reed Canary Grass has an interlacing root system, it is not a dangerous grass like Quack, but can be easily controlled by plowing. This grass grows rapidly, beginning early in the spring. The heads appear about the first week in June and are ripe about four weeks later. Leaves are broad, light green in color, and the plants often grow five to six feet in height. The underground stems rapidly form a tough sod that will hold up hay-making machinery without difficulty.

HOW TO GROW THE CROP

If the land is well drained so that you can prepare a seed bed, do so, for on a good seed bed it will not take quite so much seed per acre. If possible, plow in the fall, for then you can seed early in the spring. The seed also may be sown in October if there is any difficulty in getting on the field in the spring for it does not germinate until the following spring when sown late in the fall. The seed will germinate in water, but if covered by soil underneath the water, it will not get started until after the water has drained off.

Sow the seed in the spring as early as possible so that the seedlings may become well established before the weeds begin to grow. On very weedy land, seeding may best be done in the last week in June or the first week in July. This allows an opportunity for disking the land in the spring in order to kill the weeds. The seed should be sown at the following rate: Broadcast 5 to 6 pounds per acre, drilled 2 to 3 pounds per acre, in 16 to 18-inch rows. A roller can be used to advantage on peat soils after seeding.

Reed Canary Grass will produce an abundance of pasture from early spring until fall. The grass should be kept grazed very close except in the fall. Cut the first crop for hay as soon as the heads begin to appear, as the hay contains the highest value and is finest at this stage. Two or three crops of hay and some fall pasture may be obtained by such a practice. Reed Canary Grass will yield 4 to 10 tons or more per acre. Price: Lb. 65c, postpaid. See Blue Figure Price List.

WHAT SOME OF THE GROWERS HAVE TO SAY ABOUT REED CANARY GRASS

John L. Brown, of Le Sueur County, makes the following statement: "I had paid taxes on ten acres of swamp land for 40 years and ever since I planted Phalaris, or Reed Canary Grass, I made enough money off the ground to pay the taxes on the whole farm, with a lot left over. I especially recommend the crop for low grounds and peat soils. There are thousands of acres of lowland which could be producing big crops of Reed Canary Grass. It is a fast growing Grass and will give a good crop the next year after planting."

Mr. Brown claims the first cutting is best for horses, and the second equal to Alfalfa for cows.

J. W. Hallmichel of Blue Earth County states that on a six-acre piece of swamp land he cut 27 tons of hay the following spring after planting—50 tons of hay from the first crop this past season and 30 tons from the second crop, in addition to 1,200 pounds of seed.

Ray Kruse, another Blue Earth County farmer, sowed five acres—this year he harvested 15 tons from one cutting—had 100 pounds of seed per acre, and plans to put in a total of 22 acres.

Leo Kruse, a brother, also of Blue Earth County, sowed 20 acres in August a year ago. It did not show up on account of being under water for three months in the springtime. Late in July, however, he had a fine crop of hay and 900 pounds of seed. He now has eight stacks of hay, estimated at 50 tons, besides a big barn full.



Reed Canary Grass as it grows in Waseca and Le Sueur Counties.



Formerly a worthless swamp. Now producing 6-10 tons of valuable hay with Reed Canary Grass.

TIMOTHY

A hardy perennial resistant to both cold and drought—it is best adapted for sowing with Clovers which supply nitrogen to the soil and increase the vigor of the Timothy. It may also be sown with grains as a nurse crop. The soil must be well pulverized and the seed slightly covered. Do not cut too early or pasture too late in the fall after the hay is cut. Timothy produces 1½ to 3 tons of hay per acre and should be cut at flowering time. Sow 15 to 20 pounds per acre alone; with Clover, 10 to 12 pounds per acre. Price: Lb. 20c, 5 lbs. 75c, postpaid.

KENTUCKY BLUE GRASS

This famous grass does well almost everywhere on soil that is fairly rich, moist and moderately well drained. For best results there should be lime present in the soil. Kentucky Blue Grass will last for many years as the plants spread from underground roots and it rarely needs reseeding. Blue Grass is the best of all grasses for lawns, golf courses and parks. When sown alone use 35 to 40 pounds per acre. Price: Lb. 30c, 5 lbs. \$1.40, postpaid.

RED TOP

A hardy perennial grass, found almost everywhere, but predominating on low, marshy ground, where it forms luxuriant growth. It grows 2 to 5 feet high, depending on soil and climatic conditions, with creeping roots, which enable it to grow on very wet and even very dry soil where other grasses grow but sparsely. It makes good pasture, and fair hay, if cut early, but the matured plants are wiry and coarse. It is best grown with other grasses and clover. Price: Lb. 25c, 5 lbs. \$1.00, postpaid.

ORCHARD GRASS

A coarse tufted perennial which will stand considerable shade and is excellent for hay when young. It is early and stools heavily and may be sown in orchards, groves and other shady places. Price: Lb. 30c, 5 lbs. \$1.25, postpaid.

BROMUS INERMIS

Bromus is a vigorous, hardy perennial with strong, creeping roots which makes excellent hay and pasture on poor, dry soil or on moist, low ground that is flooded at times. It may be sown on hillsides, terraces and levees to keep the soil from being washed away. It makes an early growth, two to three weeks before any other grass, and remains green until November. It will stand close cropping.

It grows 3 to 4 feet high, yielding large crops of palatable hay, 2 to 4 tons per acre. Cut for hay when in full bloom. It is also a profitable seed crop.

Sow at the rate of 25 to 30 pounds per acre with one-half the usual quantity of small grain. Price: Lb. 25c, 5 lbs. \$1.00, postpaid.

CREeping BENT GRASS

This grass makes a fine, dense, firm turf which withstands hard usage; it is ideal for lawns, terraces, and putting greens on golf courses because it makes a compact sod due to its spreading habit. It makes rapid growth in a year, crowding out other grasses. Our seed is true to name and of finest quality. Sow 3 to 4 pounds per 1,000 square feet. Price: Lb. 80c, 5 lbs. \$3.75, postpaid.

ENGLISH AND ITALIAN RYE GRASS

These grasses are very similar and are well adapted for pastures, meadows and lawn, as they endure close cropping and make a dense, leafy undergrowth. They thrive almost everywhere but grow best in moderately rich soil. Italian Rye Grass does better on moist soil, sow 20 to 30 pounds per acre. Price: Lb. 30c, 5 lbs. \$1.25, postpaid.

MEADOW FESCUE

This hardy western grass stands more abuse than Timothy and other grasses and will stand close cropping, drought and unfavorable soil conditions. Meadow Fescue grows two to three feet high and produces a very leafy undergrowth. In sowing alone, use 20 to 25 pounds per acre. Price: Lb. 25c, 5 lbs. \$1.00, postpaid.

See Blue Figure Price List for quantity prices.



CLOVER-GRASS MIXTURES



Many Tons of Palatable Hay, Good for All Livestock, Were Produced from This Timothy and Alsike Meadow.

TIMOTHY AND ALSIKE MIXTURE

Best for Permanent Pastures and Meadows Because:

1. It makes an excellent permanent pasture, for they are both perennial.
2. It may be grown on soil slightly acid, where Red and Sweet Clover or Alfalfa cannot grow.
3. The hay produced is very leafy, of fine quality, and richer in protein than Timothy alone.
4. More tons per acre can be produced.
5. Fertility will be added to the soil through the Alsike, and the Timothy will grow much better as a result.
6. The hay can be fed to all kinds of livestock and it is relished by them.
7. Not only will this mixture of forage crops produce well on lowlands with slightly acid soil, but it also makes as good returns on uplands as many other forage crops.
8. Timothy and Alsike Seed Mixtures are often found to be inseparable, and the cost of producing them together is less than if the two kinds of seed were produced separately and mixed.

We offer two mixtures, one containing 20 to 25% Alsike which has been a very popular mixture, and for those who wish a larger percentage of Alsike, we offer a mixture having 30 to 35% Alsike.

Sow about 12 pounds to the acre. Price: Lb. 25c, 5 lbs. \$1.00, postpaid. For prices on larger quantities, see Blue Figure Price List enclosed.

F. S. & N. Co.

Eleva, Wis., April 8, 1932.

We have bought all of our hay seed from you since we started our farm 7 years ago and we like it fine. We have had good luck with it every year.

Mrs. Paul Olson, R. 4.

TEST YOUR OWN SOIL WITH SOILTEX

Success with alfalfa, clover, sweet clover, soy beans, and other legumes, depends largely upon the condition of your soil. If it contains acid, you cannot expect a good stand. You certainly cannot afford to sow expensive alfalfa and clover seed on land not fit to produce a good crop.

To correct this acid soil condition, crushed lime rock is usually spread on the land, at the rate of 1½ to 4 tons per acre.



SOILTEX enables you to determine if your soil needs lime, and how much. The test is very simple. A small quantity of soil is placed on waxed paper folded lengthwise, and the Soiltex solution dropped on one end of the soil until it is saturated. After standing a short time, the solution is drawn from the other end of the soil, and its color compared with the color chart, to determine the reaction and lime requirement. Directions with each outfit, and material for 100 tests.

SOILTEX outfits are being used in agricultural colleges, by county agents, extension workers, and farmers.

Price: \$1.00, postpaid.

ALL SEASON PASTURE MIXTURE

For all soils except low wet ground. To resist the extremes of our cold northern winters and our hot dry summers, and endure the abuse of close pasturing, we offer a special pasture mixture, consisting of hardy, deep rooted grasses and clovers. This will furnish good grazing throughout the season. It consists of Meadow Fescue, Bromus Inermis, English and Italian Rye Grass, Timothy, Kentucky Blue Grass, Alsike and White Clover. Sow at the rate of 25 lbs. per acre. Price: Lb. 35c, prepaid. Not prepaid, 10 lbs. \$2.00, 25 lbs. \$3.75, 50 lbs. \$6.50, 100 lbs. \$12.50.

PASTURE AND MEADOW MIXTURE FOR LOW WET GROUND

For land that is occasionally overflowed. Only a few grasses with stand overflowing and standing moisture on the soil. We have found the following mixture most satisfactory for this purpose: Red Top, Domestic Rye Grass, Bromus Inermis, Timothy, Reed Canary Grass, and Alsike Clover. Sow 20 to 25 lbs. per acre. For top seeding, sow 10 to 15 lbs. per acre. Price: Lb. 35c, prepaid. Not prepaid, 10 lbs. \$2.00, 25 lbs. \$3.75, 50 lbs. \$6.50, 100 lbs. \$12.50.

PERMANENT HOG PASTURE MIXTURE

Permanent Hog Pasture Mixture contains the following mixed in the right proportion to produce the greatest feeding value:

Alfalfa.	Meadow Fescue.
Orchard Grass.	Domestic Rye Grass.
Red and Alsike Clover.	Bromus Inermis.
Sweet Clover.	Timothy.

This mixture can be sown any time, from early spring until midsummer, and does not require any particular kind of soil, in fact, any soil that produces crops of small grain or corn, will answer the purpose. Because of the large amount of clover and alfalfa it contains, it serves the double purpose of providing the hogs with pasture of high feeding value, and building up the soil at the same time. Sow 25 lbs. per acre. Price: Not prepaid, 25 lbs. \$3.50, 50 lbs. \$6.25, 100 lbs. \$11.75.

ANNUAL HOG PASTURE MIXTURE

ONE ACRE ENOUGH FOR 40 SPRING PIGS OR 20 OLDER HOGS

This mixture was put up to meet the demand for a pasture that will develop young pigs rapidly, and produce pork at a minimum cost. It contains all the necessary body and bone building elements, and will prove much more economical than the use of corn, grain and mill feed throughout the year. A good pasture of legumes, grasses and grains, will keep hogs in healthy condition, fatten them quickly, so that but little corn is required to finish them off. Our balanced ration mixture consists of the following in the right proportions:

Amber Cane.	Field Peas.	Rye.	Dwarf Essex Rape.
Vetches.	Barley.	Oats.	Sudan Grass.

One acre of pasture sown to this mixture is sufficient for 30 to 40 spring pigs, and 15 to 20 older hogs. It is best to divide the hog pasture into two parts and change the hogs from one section to the other, about once a week, to give the grains and grasses a chance to recuperate. Sow at the rate of 60 to 85 lbs. per acre. Price: 25 lbs. \$1.40, 50 lbs. \$2.50, 100 lbs. \$4.75, sacks included.

We offer free, if requested, with an order for Clover-Grass Mixtures of \$2.00 or more, the valuable booklet entitled, "Our Pastures—They Deserve Better Care," published by the International Harvester Co.



Inoculate All Clovers and Alfalfa

for finer crops, stronger plants and superior fertilization. Nitragin and Humo-germ contain billions of live virile bacteria. The increased production will pay for the small investment of inoculation. See page 60 for prices and particulars.



"Our Pastures." Invaluable book for livestock growers—48 pages fully illustrated, 10c, prepaid.

QUALITY SEED GRAIN



Ceres Made the Greatest Yields and Biggest Profits of Any Variety in Southern Minnesota.

NEW DEVELOPMENTS IN GRAIN BREEDING

From year to year we have endeavored to supply you with proven varieties of seed grains. We have advised you to buy with confidence, feeling sure that you would benefit greatly. From the many letters coming to us daily, we feel that we have not overrated any variety. It is a pleasure to know that our customers, old and new, are finding complete satisfaction and we can therefore present our offerings this season knowing that they will be just as acceptable.

On the following pages some of the outstanding new varieties to be found are Hope and Marquillo Wheats; Glabron, Velvet, Wisconsin Pedigree No. 38 and New Era Barleys; Anthony, Minrus, and Logold Rust Resistant Oats. These varieties will be in great demand because they have been especially bred to meet adverse conditions as well as to take advantage of good growing conditions.

HOPE WHEAT

Rust and Smut Resistant

Since its introduction, Hope Wheat has spread rapidly throughout the spring wheat section. It is the one variety that combines the highest resistance to black stem rust with resistance to smut, root rot, scab and other diseases. What the farmer wants is a wheat that will give good returns every year, and Hope comes nearest being that variety. Until other varieties are proven superior, we recommend growing Hope in the general areas affected by rust, smut and drought.

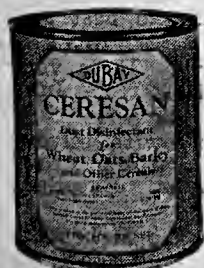
A large number of farmers have taken Hope Wheat and grown it under field conditions for a number of years when growing conditions were perhaps the most adverse that could be looked for and they would not change from Hope to any other variety now on the market because of its superiority.

Hope Wheat was developed from a cross between Emmer or Speltz and Marquis by Edgar S. McFadden of Webster, South Dakota. It combines the desirable qualities of the Emmer parent, namely flexible straw, resistance to drought, heat, black stem rust and smut, it resists shattering by wind and hail and is well adapted for combine harvesting which appears to be the coming method of harvesting grain in the Northwest. From the Marquis parent it gets its high milling quality as well as many of its plant characteristics.

CERES WHEAT

Rust Resistant

Ceres is a hard, red spring wheat developed by the North Dakota Experiment Station. It is a bearded variety quite resistant to rust and an excellent yielder. It has a very good milling quality and is especially recommended for the whole spring wheat section. Ceres Wheat has been grown for a number of seasons and has produced yields from 30 to 45 bushels or more per acre. The plants grow uniformly, and under normal conditions will produce three to four plump kernels in each spikelet. Ceres was the first rust resistant variety put on the market.



All seed grain, wheat, barley and oats are susceptible to smuts of various kinds, which reduce the yields from 10 to 50 per cent, in many instances. Some varieties are attacked more vigorously than others, but no matter how severe the attack, smut can be controlled almost entirely, by simple methods.

Grains with hulls, such as oats and barley, may be treated for smut with formaldehyde, 1 pint to 40 gallons of water. The seed is put loosely into burlap sacks, and dipped into a barrel containing the solution. Any druggist can supply formaldehyde.

MARQUIS WHEAT

This has been the standard spring wheat variety grown throughout the Northwest for over fifteen years. It is an excellent yielder in seasons when there is no black stem rust. The milling and baking qualities are very fine and it ripens along with other early grains.

MARQUILLO WHEAT

Rust Resistant.

Marquillo Wheat was developed by the Minnesota Experiment Station and is a hard, red spring wheat. It is beardless and very rust resistant. It resembles Marquis in appearance and has a good yielding ability and is especially well adapted to the spring wheat sections. Unlike Hope Wheat it is not resistant to smut and therefore it should be treated before seeding. The milling quality is good and protein content about the same as Marquis. As it is a beardless variety, it has met with favor in those sections that have been used to beardless types. Marquillo was developed from a cross between Marquis and Lumillo, a rust resistant Durum Wheat.

MINTURKI WINTER WHEAT

(Minnesota No. 1507)

Minturki is the outstanding winter wheat variety grown in the states where winter hardiness is a major factor. There is no other variety grown that is any hardier. Minturki is a heavy yielding bearded wheat which originated from a cross between Odessa, a beardless red wheat, and Turkey Red, a bearded hard red winter variety. It has proven to be of high milling and baking quality with a very good protein content. It is stiff strawed and stands up well on rich land. The straw is white in color, chaff yellowish-white without hairs and the kernels are red and medium long. The seed looks quite similar to the Turkey Red parent.

The yields range from 35 to 55 bushels per acre, depending on soil and seasonal conditions.

MINDUM DURUM WHEAT

Mindum is an Amber Durum variety developed by the Minnesota Experiment Station. It is the most widely grown Amber Durum Wheat and it yields more than other varieties, is somewhat resistant to rust and is stiff strawed. Yields of Durum ranging from 30 to 45 bushels per acre are not uncommon. This variety always brings a good price on the market.

SPRING RYE

Spring Rye should be sown more extensively. It is a great land cleaner, and for summer pasture, is much superior to winter rye. It can be grown on light and sandy soil, on land too poor for wheat, and does equally well on acid and non-acid soils.

There is not a better general utility crop than Spring Rye. It is sure to produce a good crop of grain or hay, that is rich and nourishing to all kinds of livestock. It is one of the best nurse crops to sow with clover, as it can be harvested so early in the season. It makes splendid pasture, furnishing early green feed.

ROSEN WINTER RYE

Rosen Rye was developed by the Michigan Agricultural Experiment Station by selection from a sample of rye obtained from Russia. It is the leading winter variety and is grown to a very large extent throughout the central and northwestern States. It has become popular chiefly because of its excellent yielding ability producing large, well filled heads and large dark green kernels. The milling qualities are the finest, better perhaps than those of other varieties.

Rosen Rye is more hardy than the hardest winter wheat. The straw is medium tall and stiff which keeps the grain from being easily lodged. This variety has produced as high as 50 bushels per acre. Winter Rye is sometimes sown in the spring where temporary pasture or hay is needed.

SEED DISINFECTION TO PREVENT SMUT

The covered smuts that affect wheat, hulless barley and rye can be controlled by dusting the grain with copper carbonate dust. Only 2 to 3 ounces per bushel are required. The germination of the seed is stimulated and the seed is in no way injured. This is the very best kind of crop insurance. This dust may be bought at your drug store.

THE NEWEST AND BEST TREATMENT IS CERESAN. This is a dust and is much more effective and easier to handle than formaldehyde. It can be depended upon to control smut in oats without lowering the germination. It is very economical to use, 3 ounces per bushel being sufficient.

Price of Ceresan: 1-lb. tin 75c, 5-lb. tin \$3.00, 25-lb. pail \$12.50. Cannot be mailed. Order with your grain.

Write for circular giving full details about Ceresan.

NORTHERN GROWN SEED BARLEY



Smooth Awn Barleys Are Not Only the Best Yielders But Are Also Easiest to Handle.

This is a Barley Year. There is a very great interest in barley varieties this season and many acres that have been planted to corn or other grains will be seeded to barley. At the present market prices, barley has a greater value per acre and costs less to produce than corn. The feeding value of barley has been clearly demonstrated; by growing the heavy yielding smooth-bearded types you can be assured of greater returns from feeding than you could expect from corn.

Special emphasis is being placed on the malting types of barley which will be in demand during the coming season. The smooth-bearded varieties have almost entirely replaced the rough kinds and while there was a good crop of barley produced last season, yet there will not be enough high quality seed barley to take care of the demand.

The plant breeders of the Minnesota and Wisconsin Experiment Stations have developed such outstanding varieties as Velvet, Glabron, and Wisconsin Pedigree No. 38; and better varieties cannot be found anywhere.

VELVET BARLEY

Minnesota No. 447—Certified

The demand for Velvet Barley has been steadily increasing each year since its introduction. If you have not tried this outstanding variety, we suggest that you get started with it this year, for it is one of the best smooth-bearded varieties now being grown.

Velvet originated from a cross between Luth, a rough awned, six-rowed barley of the Manchurian type and a smooth awned variety. It is a most excellent yielder, producing as much grain as Minnesota No. 184. The straw is quite stiff, the lodging percentage being no greater than that of other stiff-strawed varieties. Velvet appears to be more disease resistant than other varieties. With its smooth beards or awns, Velvet has a very distinct advantage over the rough awned types since it has no barb that will stick in the clothing or get into the flesh. Therefore, it can be handled much more easily.

Velvet is in great demand by the manufacturers of malt and there is every indication that the limited supply of this variety will be quickly exhausted before planting time.

We have many excellent reports from all over the northern part of the United States about Velvet Barley. Each year many carloads of this variety are shipped into Iowa, Illinois, Indiana, Ohio, Pennsylvania and other states, and we have had many inquiries for carlot shipments into these sections during the present season.

Once you try Velvet or other smooth-bearded varieties, you will not want to change back to the rough types. We offer Velvet Barley Seed, certified by the Minnesota Crop Improvement Association which gives you assurance of obtaining the true variety of the very highest purity.

GLABRON BARLEY

Minnesota No. 445—Certified

The plant breeders of the country are striving at all times to give the farmers new varieties of merit. This is especially true at the Minnesota Experiment Station where the most able plant breeders of the country have given you Manchuria (Minn. No. 184) and Velvet (Minn. No. 447) Barleys among other varieties. Now we are able to offer you their newest barley origination known as Glabron Barley.

Glabron is the result of a cross between Smooth Awn and Manchuria. It is smooth-bearded, making it very easy to handle, and the beards thresh clean. With a straw much stiffer than that of most other varieties, it will withstand lodging. It grows slightly taller than Velvet, produces a larger kernel, and yield data show that it will outyield consistently all other varieties. It can be grown throughout the northern half of the country from the Dakotas and Nebraska east to the Atlantic, also in the Great Plains area where the rainfall is sufficient.

Barley is being generally distributed to a greater extent this year than any year since prohibition went into effect. The reason for this is that malters will need more high quality barley, which in turn will have a tendency to raise the price of feed barley, resulting in greater returns from barley than from many other crops. We therefore recommend to you that you place your order with us early so that you can get the kind of barley that you will require.

SPELTZ OR EMMER

A valuable grain belonging to the wheat family. Kernels are tightly enclosed in hulls which adhere at threshing. Speltz has a feeding value equal to oats, and only slightly less than barley and corn. It is extremely rust resistant, and will not lodge like other grains, because of its stiff heavy straw. Speltz can be grown on many kinds of soil, rich or poor, throughout Minnesota, Iowa, Wisconsin, and the Dakotas.

Speltz makes wonderful feed and is especially fine for hogs and poultry. Sow $1\frac{1}{2}$ -2 bushels per acre, adjusting the drill the same as for oats.

Prices: See Blue Figure Price List. New Price

WISCONSIN PEDIGREE NO. 38 BARLEY

The New Heavy Yielding Smooth Bearded Barley—Certified

This variety was developed by the Wisconsin Experiment Station by crossing a black smooth-bearded barley with Oderbrucker which is a standard white kerneled variety. They succeeded in obtaining a number of strains from this cross that were smooth-bearded with white heads and from these strains careful selections were made for size of heads and kernels, resistance to disease, stiffness of straw and yielding ability.

Wisconsin Pedigree No. 38 Barless Barley has the following outstanding characteristics:

First—Smooth-Bearded. This feature makes the barley very easy to handle and because of this, it has stimulated production of barley to a great extent.

Second—Resistance to hot weather. This barley appears able to withstand a greater degree of heat than many other varieties of barley which are now being grown. It matures a few days later than Glabron and Velvet; but with its resistance to hot weather and long, stiff straw, it is able to stand up and develop larger kernels than some of the earlier varieties.

Third—Yields heavily. Wisconsin No. 38 Barless Barley has shown its ability to outyield other varieties and has produced as high as 70 bushels or more per acre. In Wisconsin tests, this variety has always outyielded any of the common barley grown in comparison with it.

Fourth—Finest for malting. Wisconsin No. 38 Barless Barley is greatly desired by the manufacturers of malt and will command a premium over many other varieties on the market.

NEW ERA BARLEY

Improved White Hulless—Certified

New Era Barley was developed by E. S. McFadden (the originator of Hope Wheat) by crossing the common white hulless variety with Manchuria (Minnesota No. 184), which for years was the outstanding barley. New Era Barley is bearded like Manchuria, but the beards and hulls drop off when threshed, leaving naked white kernels. The yields of New Era are equal to those of Manchuria which ranks as one of the highest yielding varieties.

New Era was one of the few varieties that produced a good crop in the drought-stricken areas of North and South Dakota during the seasons of 1931-32. Its drought-resistant qualities make it ideal for the lighter types of soil and the drier areas of the Northwest. It also does exceptionally well in areas of greater rainfall and on heavier richer soils.

New Era has a greater feeding value than most varieties with hulls because the kernel is hulless.

BUCKWHEAT

Buckwheat makes an excellent catch crop, or it may be sown after harvesting winter wheat or rye. It is also good to sow on newly broken ground, but its greatest value lies in the fact that it is the best and surest means of getting rid of quack grass.

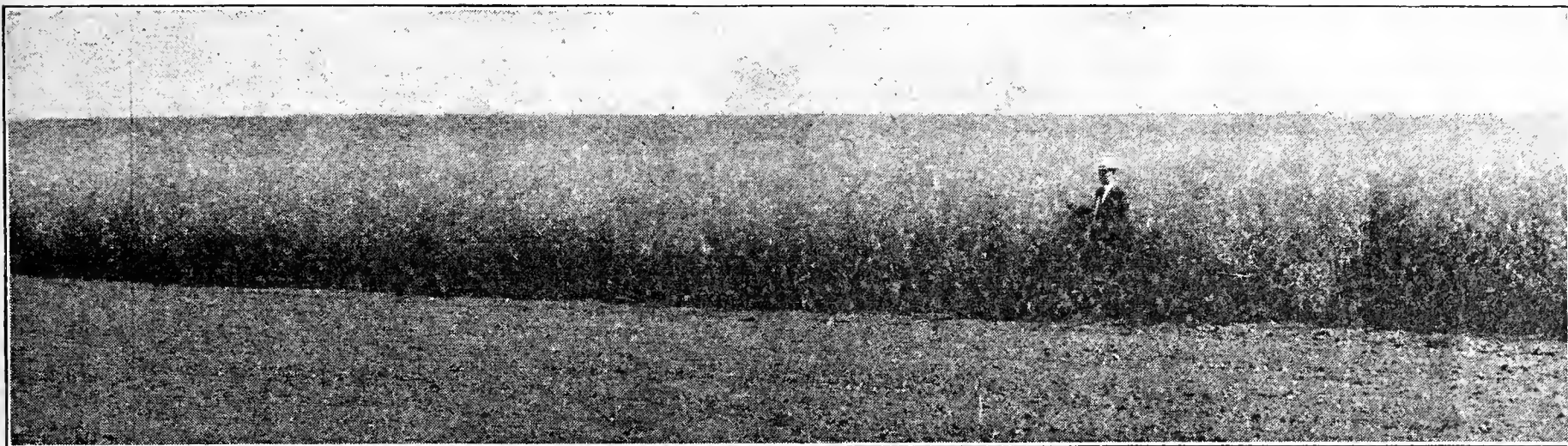
JAPANESE—Large kerneled, dark brown, and early. It is very productive, and an excellent feed for cattle and hogs. Sow from June 1 to July 1, at the rate of 3 pecks to the acre.

SILVER HULL—A popular thin shelled buckwheat, with silvery grey kernels of medium size, very sound. Silver Hull is a prolific grower and heavy yielder, and makes first class buckwheat flour. Excellent for bees.

MIXED BUCKWHEAT—For a cheap catch crop; also makes excellent feed.

Lists Issued about March 15th. Write for Copy.

SELECT SEED OATS



Minrus Rust Resistant Oats—Medium Tall, Heavy Yielding, Profitable To Grow.

IOGOLD RUST RESISTANT OATS—CERTIFIED

The necessary requirements for any variety of grain are yield, stiffness of straw (resistance to lodging), rust resistance and early maturity. Iogold Oats includes all of these which makes it such an outstanding variety.

The development of Iogold Oats by the Iowa Agricultural Experiment Station has taken many years. A single plant which differed from the others was selected in 1906 at Iowa City, Iowa, from a plot of Kherson Oats. Until 1925 it was grown in small plots under close supervision so that the characters might be carefully studied, when it was increased under field conditions and compared with other varieties. It proved superior to all other varieties so that in 1925 and 1926 it was increased and distributed to farmers for growing in comparison with the varieties they were already using. The yields reported in 1931 and 1932 are from 80 bushels to 115 bushels or more per acre. We have a good supply of the highest quality certified seed.

Iogold Oats produces heads that are spreading; erect, cream colored and very uniform. The kernels are golden yellow and larger than Iowa No. 105. The straw is coarser than Kherson and is stiffer than any other variety produced by the Iowa Experiment Station. The plants grow about three inches taller than Iowa No. 105 and ripen about the same time and are a few days earlier than Iowar.

GOPHER OATS—MINNESOTA NO. 674—CERTIFIED

Gopher is a white, early maturing variety with straw so stiff and strong that it does not lodge even on well manured farm land. It is also adapted for growing on peat land. It is without any question the best oats for the rich dairy farms of southern Minnesota, Iowa and Wisconsin and unequalled for sowing with clover and alfalfa as a nurse crop.

This variety was developed by the Minnesota Experiment Station and has become widespread throughout the Northwest. Excellent reports, not only from Minnesota but from North and South Dakota, Wisconsin and Iowa, show that Gopher is still leading in yield, earliness and stiffness of straw. Our growers report 75 to 115 bushels per acre of plump, bright grain.

The oat crop in many sections was very light, having been damaged by adverse weather conditions and the demand for seed will be quite great. Our stocks of high quality certified seed oats are reasonably large, especially the Gopher variety but with the strong demand may not last long.

EARLY MINNESOTA WHITE OATS

This excellent variety has been in very great demand since we introduced it, and each year we do not seem to have enough to take care of all requirements. This variety matures about two or three days later than Gopher and has longer straw which is quite stiff. Early Minnesota looks very similar to Minrus although it has not quite the rust resistance.

We cannot emphasize this variety of oats too strongly. In order to fully appreciate Minnesota Early White Oats, grow a few acres, and we feel certain you will continue to grow some of this variety each year.

Early Minnesota White Oats will yield from 75 to 100 bushels per acre on good soil.

ANTHONY RUST RESISTANT OATS

A Midseason Variety—Certified.

Anthony Rust Resistant Oats (Minnesota No. 686) is a new variety produced from a cross of White Russian (White Tartar) and Victory, it is a midseason type maturing about two weeks later than Gopher or Iogold and has a spreading panicle. The straw is about equal in length to Victory and is very strong. Anthony is well adapted to all types of soils but does especially well on those soils that are only moderately fertile.

It is very highly resistant to black stem rust and during the season of 1932 our own fields produced close to 100 bushels per acre while other midseason varieties, not resistant to rust, had broken over and had very poor yields. Anthony excels in weight per bushel and yield.

Wherever it has been grown it met with instant favor and we especially recommend it for those sections where the early varieties do not seem to give the very best results.

SWEDISH SELECT OATS

Improved Strain Wis. No. 5.

This is a very popular midseason variety, the kernels are large, plump and white in color. It is a very excellent yielder and is especially well adapted to lighter soils.

ROOSEVELT OATS

This variety was introduced by us and is a very popular one. It is of the Swedish type, large plump kernels and stiff straw. It ripens about the same time as Anthony or Swedish Select and produces yields of 80 to 100 bushels per acre.

IOWA NO. 105 OATS

This variety was produced at the Iowa Agricultural College, at Ames, Iowa. It is very early, fine to use as a nurse crop, and is a heavy yielder.

The kernels are of medium size, light yellow, plump and heavy. The oats grow about 4 inches taller than Kherson, with stiff straw that holds up its heavy load of plump grain well. It will grow without lodging, on heavy bottom land where it is impossible to sow many other varieties.

EARLY KHERSON OATS

One of the earliest oats in cultivation. It was introduced by the Experiment Station of Nebraska, and has proved a success in that state, being naturally adapted to sections that are subject to drought. It is a vigorous but not rank grower, producing shorter straw than other varieties, with branching heads and very broad leaves. The berries are light yellow in color, small, but numerous, and have a very thin hull.

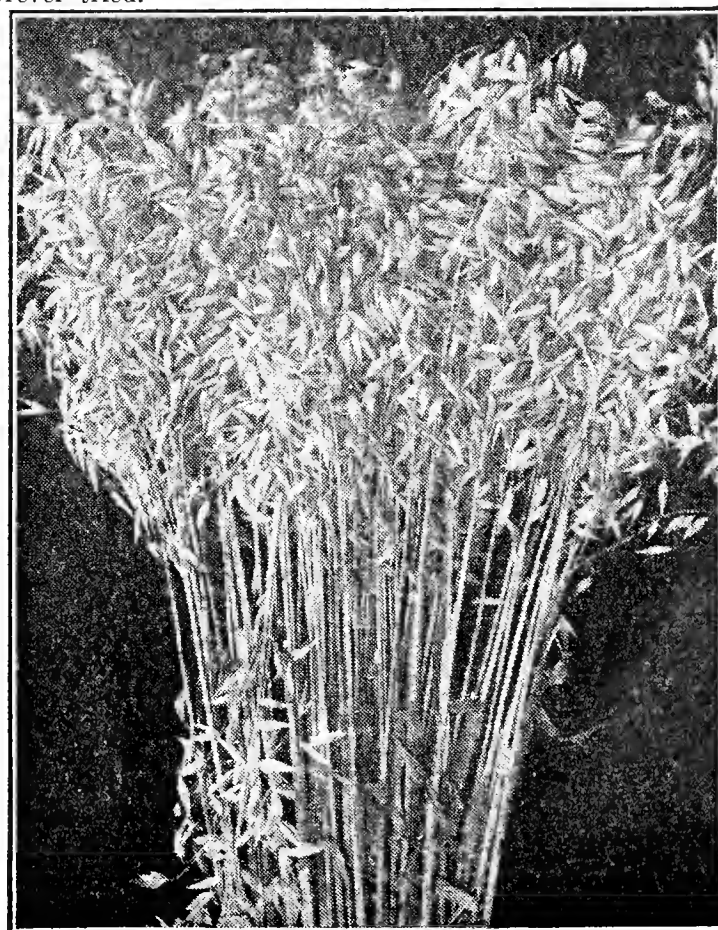
MINRUS OATS—CERTIFIED

Minn. No. 693.

Minrus matures about half way between Gopher and Anthony; produces white glumes and has a spreading panicle. It is about equal in height and stiffness of straw to Anthony and is highly resistant to stem rust. It was produced by the Minnesota Experiment Station from a cross of Minota and White Russian. The seed was generally distributed for the first time last year and the supply was quickly exhausted. As it is so popular, we do not expect our stocks of Minrus to last very long this season.

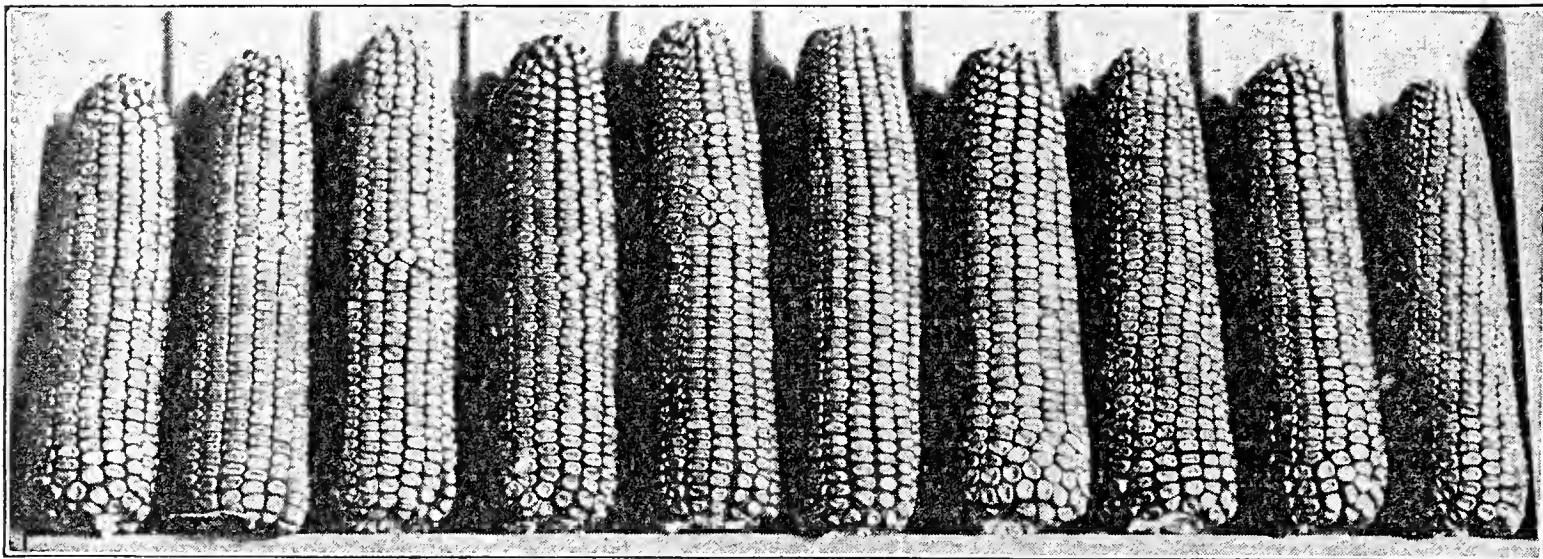
Observations to date indicate that Minrus will outyield Gopher Oats on any ground except the very richest. Gopher Oats should be used on the rich soils as it is more able to resist lodging under those conditions. Minrus should be very popular on lighter soils where Gopher Oats does not get tall enough to handle well.

Minrus may be grown with varieties of spring wheat as succotash as it is a few days later than Gopher. Minrus has already met with great favor wherever tried.



Iogold—Early, Rust Resistant, High Yielding.

MINNESOTA GROWN SEED CORN



Golden Jewel—the most popular high yielding Yellow Dent Corn grown in Minnesota.

Never again will there be such an opportunity to obtain new seed corn at present low prices. If the corn you are now growing has run out or is not giving you the yields you have every right to expect, then you will want a better variety than you have that will easily increase your production. Grow one of our highly bred, high yielding varieties, adapted to your particular locality. We accurately and fully describe the different kinds of corn, but if you are in doubt as to what variety will give you the best results, just ask us. We have information on adaptability and yields of the varieties recommended for the Northwest and are in position to advise you regarding the variety to plant. With

the present market prices, you will want to get the biggest returns per acre, thus keeping down the cost of operation and assuring the best possible returns.

Our Guarantee. We sell only dependable, carefully tested seeds. Should failures result from any fault of the seed, we will refund your money. Seeds, Trees, Bulbs and Plants are subject to climatic conditions over which we have no control, therefore the Farmer Seed & Nursery Co. gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any Seeds, Plants or Bulbs they sell and they will not be responsible for the crop.

STATE CERTIFIED AND SEALED SEED CORN

The Minnesota Crop Improvement Association in recent years inaugurated an addition to their inspection service by including a State Certified and Sealed Service for Seed Corn grown and offered for sale by seed houses. To those that wish extra assurance that a particular variety will be true to name and adapted to their sections of the coun-

try, this certification service has meant considerable. It has met with instant approval, and our already large business in Seed Corn increased considerably. Careful inspection is given to the crop from the time the seed goes into the ground and during the growing period until the new crop is husked, sorted, dried, shelled and graded and finally sealed into sacks for shipment to you.

We offer State Certified and Sealed Seed Corn in all main crop varieties at only a slight increase in price over the non-certified seed.

GOLDEN JEWEL CERTIFIED

Since our introduction of Golden Jewel Corn, there has been no variety of yellow dent corn grown in southern Minnesota and adjacent territories that matured as early and still produced large yields of 70 to 100 bushels or more per acre. Golden Jewel Corn is the result of careful breeding and selection conducted by us on our own farm. In tests in southern Minnesota during the past two years made by the Minnesota Experiment Station, there was no other variety of yellow dent corn that superseded it in quality and yield.

In developing Golden Jewel, we crossed Early Murdock with the large type Mastodon which produced this high yielding variety with the great feeding value. Never has any other variety been distributed so rapidly and completely throughout the Corn Belt which has met with such permanent satisfaction. It is especially adapted to southern Minnesota, South Dakota, Iowa, southern Wisconsin, Illinois and other Corn Belt states.

The ears are of a golden yellow color, very compact, 8 to 10 inches in length, 16 to 20 rows of medium deep, square shouldered kernels on a small red cob. This variety has been selected in accordance with the findings of the various experiment stations in the Corn Belt, and runs from a moderately smooth to slightly rough ear. It has been shown that the smoother, longer types of corn produce a larger quantity of dry corn, ripen earlier, are freer from disease with a much greater feeding value than the old, very rough pinched type.

Golden Jewel produces an abundance of fodder or silage as the stalks will grow seven to eight feet tall or more and the leaves are vigorous, broad and succulent. It is what is known as a 95 to 100-day corn.

EARLY MURDOCK GOLDEN DENT CERTIFIED

Murdock is a yellow dent variety in appearance quite similar to Golden Jewel except that it has a fewer number of rows, the kernels are medium deep and have a wrinkled to pinched dent. Our strain is about 5 days earlier than the Golden Jewel and it produces high yields of very fine quality. Like the Golden Jewel, it has won many prizes and is very popular. The ears are 8½ to 9½ inches long, of a golden color, fairly compact and uniform. Murdock is grown successfully as far north as central Minnesota and Wisconsin and is an excellent early variety for Illinois, Iowa and other states of the Corn Belt. It matures in about 92 to 97 days. In the past few years, yield tests showed Murdock to be outstanding as it produced from 65 to 90 bushels per acre with an average of about 80 bushels.

SILVER KING OR WIS. NO. 7 CERTIFIED

Many farmers have discriminated against white varieties of corn, largely due to the fact that the white varieties do not contain a certain vitamin. Agricultural authorities believe that this point has been overemphasized and recommend that farmers grow such varieties as Silver King and Rustler White Dent, which are high yielding white varieties, producing more bushels per acre than many of the yellow varieties that are now being grown.

Alfalfa or Clover hay, which is rich in vitamins of all kinds, is usually fed with Corn and so there is no danger of any lack of vitamins if white corn is used.

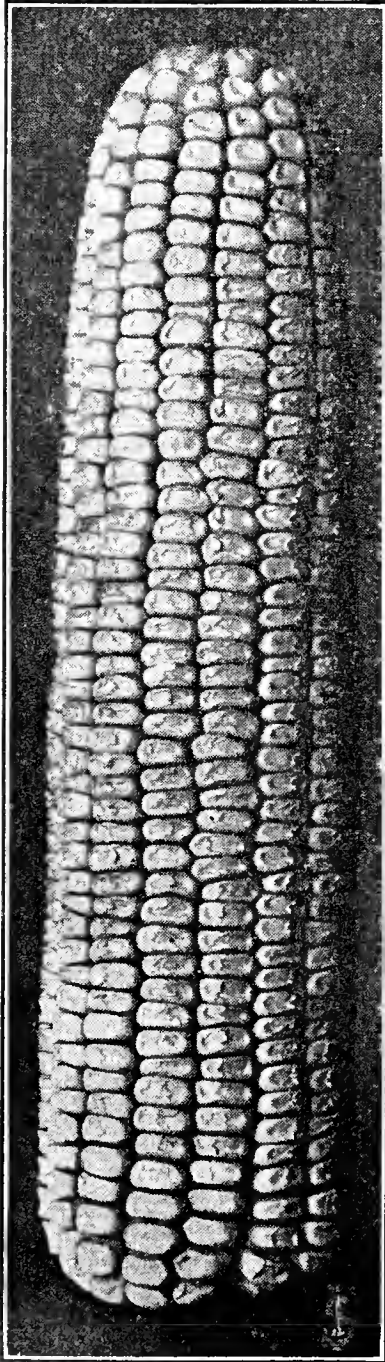
Don't pass up an opportunity to get high yields at low cost simply because a variety of corn is white.

Silver King is the best main crop white dent variety for the southern part of Minnesota, Wisconsin, South Dakota, also for Iowa and Illinois. It has been grown very extensively for a number of years and constant improvements in the variety have brought it to the point where it will outyield all other white dent varieties and most of the yellow dent varieties now being grown. In Wisconsin it is estimated that one-fifth of the corn grown is of the Silver King variety. This variety is creamy white in color with slightly rough kernels. The ears are well formed, 8 to 10 inches long, 16 to 18 rows and completely filled out to the tip.

Silver King is a strong, leafy grower with heavy foliage which makes it very excellent for the silo. The Waseca Sub-Experiment Station has developed the variety so that it yields well over 90 bushels per acre. Silver King resists cold weather to a remarkable degree and matures in about 100 days. It is a fine show type corn and has won many prizes at the corn shows.

RUSTLER WHITE DENT CERTIFIED

This early variety, originated in North Dakota, is well acclimated to the Northwest. For early ripening, big yields and compact growth of ears, it is one of the best; admirably adapted to a northern climate. The average height of the stalk is 8 feet; average distance to base of ears from ground is 3½ feet. The ears are large, closely filled with large, deep kernels. Matures in 95 days. We know of no better all-around dependable white dent corn than Rustler, and recommend it for all sections of southern and central Minnesota, Iowa, Wisconsin and South Dakota. Rustler is the main white corn for southern and central Minnesota.



Rustler.

DOUBLE CROSS CORN—New Hybrid Varieties

Vigorous, sturdy plants, a good sound ear on every stalk, no weak and spindling plants, few nubbins or moldy ears. These are some of the outstanding characteristics of Double Cross Corn. All of these desirable features combined enable this new kind of corn to outyield the old standard varieties year after year and under all sorts of conditions.

The Minnesota Experiment Station has been a pioneer in developing Double Cross varieties of corn. Our own plant breeding department has been conducting similar trials but our varieties have yet to be more thoroughly tested before being put on the market.

THE LATEST TRIUMPH IN CORN BREEDING BY MINNESOTA EXPERIMENT STATION

We are able to offer the Minnesota Experiment Station varieties which are the results of crosses between Minnesota No. 13 and Rustler White Dent. They have consistently yielded 16 to 20% more dry shelled corn per acre than the standard varieties now being grown in Minnesota. They ripen uniformly early in September, all the plants grow about the same height, and there are no soft or milky ears at picking time.

These Double Cross varieties were primarily bred for central Minnesota and similar latitudes such as central Wisconsin, northern South Dakota, but may be grown farther south as they are desirable for early ripe corn or hogging-off purposes. Because of the nature of the breeding of this corn, Double Cross Corn may only be used for seed one year; also the seed cannot be graded quite as sharply as the standard varieties and in some instances it may be necessary to use special plates to plant it. Consider, however, the fact that a 16 to 20% increased yield of ripe corn that can be picked at an early date will bring additional returns more than five times the cost of the seed stock. One bushel of Double Cross Corn will seed 6 to 8 acres planted at 3 or 4 kernels to the hill, which means a very low cost per acre for seed stocks.

The latest information available indicates that Double Cross varieties of corn may be planted 4 and 5 kernels per hill, thereby increasing the yields to even a greater extent. This is due to the fact that the Double Crosses take advantage of the soil and weather conditions more readily than the normal varieties.

RETURNS FOUR TO FIVE TIMES THE SEED COST IN EXTRA BUSHELS

Remember, Double Cross Corn is 16 to 20% higher yielding, ripens uniformly about two weeks earlier, the plants are vigorous, sturdy and grow to a uniform height and a good sound ear may be found on every stalk. Although the seed may be used only once, Double Cross is a profitable variety to grow.

Due to limited space, it is not possible to tell you all about Double Cross varieties in the catalog but we will be glad to send you a circular giving complete details about this new kind of corn. Our supply is small and we will not be able to take care of all the demands, so order early.

We offer two outstanding strains that have been developed by the Minnesota Experiment Station, namely IxE and ExK.

IxE has been found to be especially adapted to central Minnesota, Wisconsin and northern South Dakota. It is early and excellent yielding.

ExK may be planted in southern Minnesota, Wisconsin and South Dakota as it produces stalks somewhat larger than IxE and matures a few days later. Give these varieties a trial. For prices see Blue Figure List.

GOLDEN KING CERTIFIED

A new High Yielding, Early Maturing Variety of Great Merit.

Golden King Corn was developed by MacArthur in northern Iowa, near the Minnesota line. It was entered in the Iowa corn yield tests from 1923 up to the present date. It won high average over an eight-year period, the yield being 4 bu. more per acre with 4.3% less moisture than any other variety.

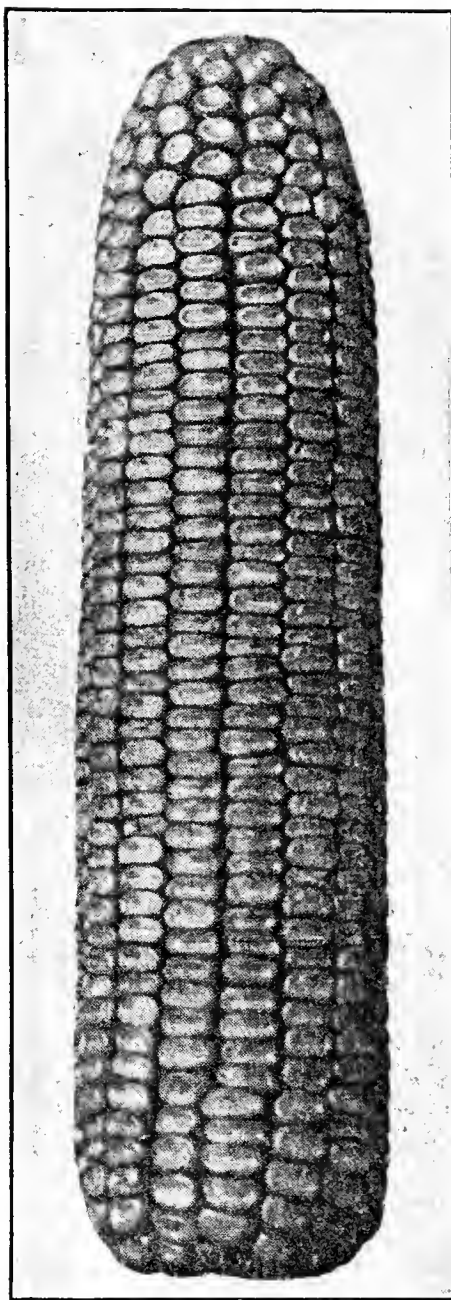
Golden King Corn has been grown in southern Minnesota for a number of years. It made such a good performance that it attracted the attention of the experiment station authorities who have now tested it for two seasons and found that it ripens about as early as the Double Cross varieties and yields among the highest with low moisture content. The market or feeding values are really determined by maturity, dryness and the weight per bushel. In these, Golden King excels over all other standard varieties.

Our seed stocks were grown near Waseca, Minnesota, from seed obtained from the originator and we do not hesitate to recommend this variety for the southern parts of Minnesota, South Dakota, Wisconsin and all other states in the Corn Belt.

Golden King shows a much smaller percentage of barren stalks than any of the other standard varieties. It is next to the Double Crosses in this respect.

MINNESOTA IDEAL CERTIFIED

This splendid large eared yellow dent corn, which we originated, is very productive. It is one of the standard corn varieties which are suitable for southern Minnesota and states of the Corn Belt. Minnesota Ideal is the largest eared yellow dent corn and matures a few days later than Minnesota No. 13. Under ordinary conditions its average yield is 80 to 85 bus. per acre and under favorable conditions and good culture, the yield has been 100 bus. per acre. Minnesota Ideal has a strong, vigorous root system and comparatively stiff stalks which enable it to stand up well. It is also an outstanding silage and fodder corn.



Double Cross Corn, IxE Strain.

CERTIFIED STRAINS OF MINNESOTA NO. 13

Minnesota No. 13 was developed by the Minnesota Experiment Station. The original strain was adapted to central and southern Minnesota conditions but would not produce mature corn in the northern part of the state. To meet this requirement for earliness and also a demand in the southern section for a larger type, two new strains were developed known as the Extra Early and Southern or Large Type Minnesota No. 13. We offer all three strains.

LARGE TYPE OR SOUTHERN STRAIN NO. 13

This strain is particularly adapted to the southern parts of Minnesota, Wisconsin, and South Dakota, northern Iowa, Illinois and Nebraska. The ears are smooth, deep yellow in color, 7 to 9 inches in length, with 14 to 16 rows of medium deep kernels. Stalks grow 6 to 7½ feet tall and ears are just the right height for husking, being 3½ to 4 feet from the ground. It matures in about 90 days and produces average yields of 75 bushels per acre on good corn land. We have the finest of stocks and prices are very reasonable this season. Now is the time to get started with new seed.

CENTRAL STRAIN NO. 13

This was the original strain developed by the Experiment Station and is similar to the other strains of Minnesota No. 13 except that it is about a week earlier, maturing in 80 to 85 days. The ears are a trifle smaller but it will yield almost as well as the southern strain and is pretty sure to produce ripe corn practically every year. It is better to have ripe corn every year than to have a larger type that will ripen only two or three years out of five. This corn is grown from seed produced in Meeker County, Minnesota, and is adapted to central Minnesota and Wisconsin and northern South Dakota.

EXTRA EARLY STRAIN NO. 13 (Northern or Haney's Strain)

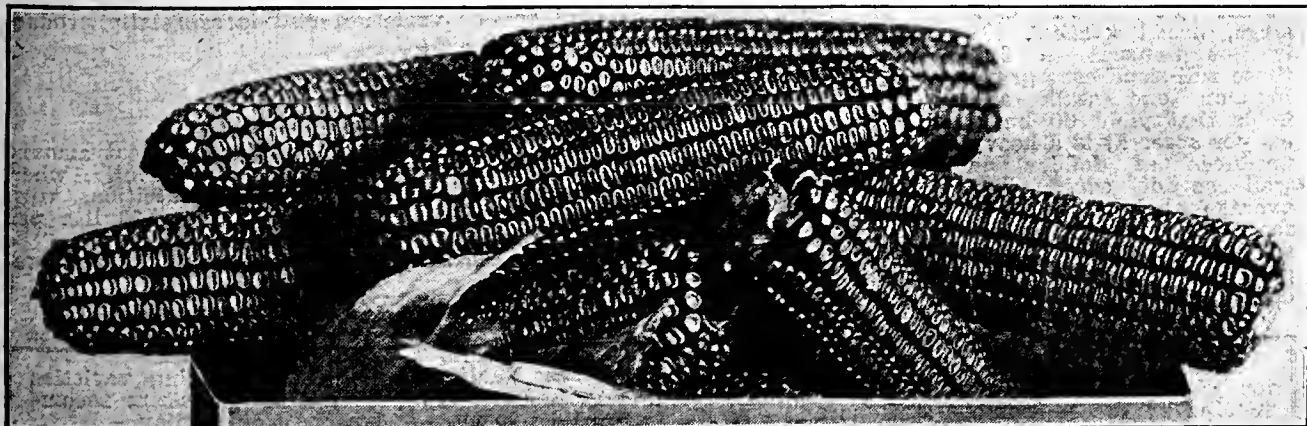
This strain is adapted for northern Minnesota, Wisconsin and North Dakota and is the earliest yellow dent corn now being grown. It has the same general characteristics of the other Minnesota No. 13 strains although the ears are necessarily smaller and the stalks grow about 5 to 6 feet tall. It matures very readily under normal conditions, producing as much as 45 to 50 bushels of ripe corn.

NORTHWESTERN DENT CERTIFIED

Northwestern Dent Corn is a cross between a red flint and a yellow dent, and has red kernels with light yellowish and cream shadings. No other variety is grown as extensively in North Dakota, northern Minnesota and Wisconsin as Northwestern Dent. Under ordinary conditions, it matures in 85 to 90 days, and under very favorable conditions, in 75 days.

Northwestern Dent yields from 50 to 70 bushels per acre. The ears are of good size, 7 to 9 inches long, bearing 10 to 14 rows of kernels. The stalks average 7 to 8 feet in height, bearing the ears about 3½ feet from the ground.

Because of its earliness and large yields, it is the corn for hogging down.



Minnesota No. 13.

FLINT AND FODDER VARIETIES



Homer Rock and his prize field of Ideal Silo Corn, also his new 12x30 Triple Wall Independent Silo—see letter below.

EVERYONE WANTS IT

Farmer Seed & Nursery Co.

I had good luck with the F. S. & N. Co's Ideal Silo Corn and the people wanted to know where I got that seed corn. It grew to 10 ft. high and was a great stand. It sure produces tonnage per acre and the sap in the stalks is most as sweet as sorghum cane which the cattle relish very much. I expect to grow the same again next year.

I had two acres of your Northwestern Dent which did nicely and got ripe, but it would take twice as many acres of it to fill the silo as Ideal Silo Corn.

J. A. Pearson, Foxboro, Wis.

F. S. & N. CO.'S IDEAL SILO CORN

Known throughout the Northwest as the greatest yielder of corn for fodder purposes. For feeding green, ensilage, and for curing in shocks to be fed in the bundle, it is the most productive corn obtainable.

Ideal Silo Corn is of exceptionally strong, vigorous growth, with stalks growing 8 to 10 feet high, and broad, thick leaves that make succulent fodder. It is not coarse, like southern fodder corn. The ears grow from 8 to 12 inches long, with medium deep yellow kernels.

Because of its deep vigorous root system, it adapts itself readily to unfavorable soil and climatic conditions, withstanding drought and wind, and cold, wet weather equally well. It matures in 95 to 100 days, only a few days later than Minnesota No. 13.

As a silo filler, Ideal Silo Corn is unsurpassed. Many of our customers, who now depend upon Ideal Silo Corn for all their fodder, have filled silos, 12x30, with corn from 4 acres and 12x35, with corn from 5 acres, when ordinary corn from 10 to 12 acres for the same size silo was formerly required. See Blue Figure Price List for quotations.

A GROWER TALKS FROM EXPERIENCE

Farmer Seed & Nursery Co.
Faribault, Minn.

On May 5 I planted five acres of Ideal Silo Corn.

This corn made a growth of from 12 to 14 ft., and had from one to four ears to each stalk. I have my hundred-ton silo full to the top and 20 or 25 tons left in the field.

Everybody I have talked to says it is the best they ever saw. This is my first experience with a silo and I sure am glad to know that a man can produce such an enormous amount of feed on such a small acreage.

Homer W. Rock, Lolo, Mont.

KING PHILIP FLINT

This extra early red flint corn is eight-rowed and one of the most reliable and productive varieties for the Northwest. The ears grow 12 inches long with eight straight rows of broad kernels of shiny red color. Stalks produce two and sometimes three good large ears. Not nearly as hard as ordinary Flint Corn. The stalks grow about 7 feet in height and are very leafy, therefore more valuable for fodder than Dent Corn. Matures in 80 days.

LONGFELLOW FLINT

A yellow flint corn of rich and glossy appearance. The ears are 12 to 16 inches long, filled with large, broad kernels. It is not unusual to find three full-sized ears growing on one stalk and fields that yield 60 bushels per acre. It is a heavy producer of fodder as well as of ears. The average height is 7½ feet, while the ears are set about 3 feet from the ground. Matures in 85 days.

CANADA SMUT NOSE FLINT

This corn matures in 80 to 85 days and averages 60 bushels per acre of well matured corn. The stalks, which average 7 feet in height, often bear two or three ears, 10 to 15 inches long, very compact, and rich golden yellow, blazed with red towards the tip. The ears are set about three feet from the ground.

Canada Smut Nose is well liked for hogging-off purposes as hogs make very rapid gains. In the northern sections it is also grown extensively for silage and fodder.

RED COB FODDER CORN

A pure white corn which is sweet, tender and juicy, and furnishes great quantities of nourishment. The plants produce an abundance of leaves, and grow to a good height. This corn is suitable for all sections for fodder, but will not ripen here.

YELLOW DENT FODDER CORN

A standard early variety that has given our customers very good satisfaction for many years. It is a heavy yielder of fodder and may be used for feeding green from the field, as well as for silo filling and for curing in shocks, to be fed later in the bundle.

Early type—Stalks large, ears medium, matures in 85 to 90 days.

Late type—Stalks and ears large, matures in 95 to 100 days.

WHITE DENT FODDER CORN

Similar to the yellow dent fodder varieties, and is especially productive of leafy growth and large ears.

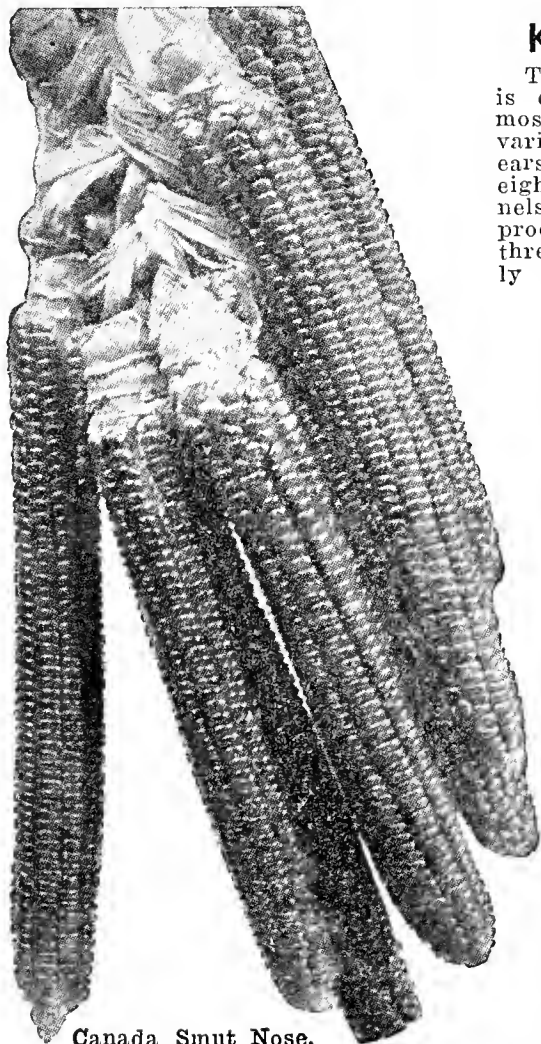
We offer both early and late types.

SWEET FODDER CORN

This variety will grow 9 to 10 feet high and produce a great amount of fodder. It will increase the production of milk wonderfully, when fed to dairy cows. Stalks are sweet, tender, juicy, and nutritious, with large broad leaves produced in great abundance. Weight, 48 lbs. per bu., same as sweet corn.

Price: All varieties of corn—Lb. 20c, 5 lbs., 70c, postpaid. Not prepaid, 1b. 15c, 5 lbs. 50c.

For larger quantities, see Blue Figure Price List.



Canada Smut Nose.

Better prices can be realized only by growing better quality crops and producing varieties for which there is a real demand. This catalogue points out the proven money makers recommended by the experiment stations and our stocks are true to type and highest in quality.

SUDAN GRASS—RAPE



Large Yields of Choice Hay Can Be Expected from Sudan Grass.

SUDAN GRASS PRODUCES QUALITY HAY, GROWS FAST

One of the best annual forage plants ever introduced, suitable for almost any locality. Sudan Grass thrives best on rich loam, but has been successfully grown on almost every kind of soil, from heavy clay to light sand. Cold, wet soils are not suited to Sudan Grass. Sudan Grass is a sorghum, and an annual, without underground root sprouts. It grows 4 to 5 feet high in drilled seedings, and 5 to 8 feet in cultivated rows.

DO NOT SOW SUDAN GRASS BEFORE CORN PLANTING TIME. Like corn, it is a warm weather crop.

In favorable seasons, the growing period is long, and several cuttings can be obtained in one season. For hay it is ready to cut in 60 to 75 days, when it is in full head. It continues its growth, and in 40 to 45 days it is ready for another cutting. If Sudan Grass is grown for seed, only one crop can be harvested.

Sudan Grass is an enormous yielder, producing 3 or 4 tons of hay at the first cutting. The second cutting is lighter, and the hay is much finer. Livestock of all kinds will eat the hay readily.

CULTURE—For a seed crop, sow 15 lbs. per acre, in drills, 15 to 20 inches apart. The crop should be harvested with a grain binder.

For hay, sow at the rate of 20 to 30 lbs. per acre, using a grain drill, and cover from one to one and one-half inches deep. Heavy seeding makes finer quality hay.

The hay crop is harvested with a regular mower, when the Sudan Grass is fully headed out. It can be cut in the morning, and if the sun is bright, it should be raked up in the afternoon of the next day. After bunching, it is placed in cocks, just the same as alfalfa. After it has been thoroughly cured, it is removed from the cocks to the barn, or stacked. Because of the large amount of juice in the stems of Sudan Grass, the leaves cure first and the hay often appears ready to stack, when it is not. Therefore, the only sure way to avoid heating, is to allow Sudan Grass to remain in cocks long enough for the stems to become dry. The leaves are retained well, and if cut at the right stage will make a bright, leafy, sweet hay, of the very best quality.

SUDAN GRASS AND LEGUMES MAKE A GOOD MIXTURE

Sudan Grass grown with legumes, such as soy beans, makes a well balanced mixture for pasture, ensilage and hay. Sudan Grass grows stiffly erect, with stems strong enough to support the vines and makes harvesting easier, by keeping them off the ground. It hastens curing, by preventing the beans rotting.

Sudan Grass and soy beans, planted together, make a good hog pasture. Sow 25 to 30 lbs. Sudan Grass and the same quantity of soy beans, to the acre, drilling in the seed with a grain drill. For quickest results, sow in rows 18 to 20 inches apart, and cultivate.

Price: Lb. 20c, 5 lbs. 75c, postpaid.

RAPE MAKES QUICK PASTURE

Rape is an annual forage plant of great value, profitable in all sections of the country. It can be grown to advantage on land which has already produced an early grain crop, like oats, rye, or winter wheat.

Rape provides excellent pasture for all kinds of livestock, cattle, hogs, and sheep. It can be sown at any time during spring or summer, so a good pasture can be had whenever it is needed. Rape will prepare sheep and hogs for market better and in less time than any other forage plant.

One acre is sufficient to pasture 12 to 15 sheep from six weeks to two months, and is the ideal pasture for weaning lambs. Spring pigs can easily be brought up to 200 lbs. in weight when six months old, if fed on rape. It is a mild succulent feed for cattle, and will not flavor the milk, if the cattle are pastured properly. Stock that is being fed on rape should always have access to salt.

Two pieces of land may be seeded at once, to be used alternately, pasturing one while the other is growing. Do not graze too closely. Rape makes a good fall pasture.

DWARF VICTORIA RAPE—An outstanding variety that produces an abundance of forage and has met with great favor wherever grown.

DWARF ESSEX RAPE—The commonly grown type that has produced the finest pastures for many years. Lb. 20c, 5 lbs. 75c, postpaid.

ADVANTAGES IN SOWING RAPE:

1. Grows wherever corn or turnips grow.
2. Provides pasture in 6 to 8 weeks' time.
3. The best forage plant for dry seasons, because of its strong, deep root system.
4. Plant alone or with grain, soy beans, sudan grass or cane.
5. Adds humus matter to soil when plowed under.
6. Its cheapness; sown broadcast, use 5 or 6 lbs., sown in rows, use only 3 lbs. per acre.

HARDY FLAX VARIETIES

Flax is an important crop, for not only is the seed utilized for oil, etc., but the straw is made into rugs, sewing materials and other items. In the past flax was considered more of a catch crop to be planted when conditions for other crops were unsatisfactory. The last few seasons have demonstrated that flax is a real money-maker on the farm and with the increasing demand for seed and fiber, it will surely pay to raise it.

Most farmers plant their flax after other crops are sown. This is a very poor procedure, for flax does best in moderately warm weather and if planted too late usually is greatly affected by heat or drought. To obtain large crops of high quality flax, sow early from middle of April to the middle of May. The earlier that flax is sown the better able the plant will be to withstand wilt and other diseases too. Sow wilt and rust resistant strains of flax.

BISON—(Certified.) This variety comes from the North Dakota Experiment Station. It is a large seeded type both rust and wilt resistant and is exceptionally popular in the Dakotas, Minnesota and other points of the Northwest. It has already replaced many other varieties now being grown. From the yield standpoint it will produce about as much as Buda. Yields have been reported as high as 30 bushels per acre, but an average yield can be expected of about 20 bushels or more per acre.

RED WING FLAX—(Certified.) Rust and wilt resistant. Like Buda and Bison Flax varieties, Red Wing is outstanding for its resistance to rust and wilt. It was developed by the Minnesota Experiment Station and has proven a good yielder throughout the Northwest. The blossoms of Red Wing Flax are a lighter blue than the other varieties and the seed is somewhat lighter in color. Red Wing Flax is quite popular this season and we anticipate a good demand.

WINONA—(Minn. No. 182.) (Certified.) This variety is widely distributed and is highly resistant to wilt. It has moderately long stems, small blue flowers, small brown seeds and is very productive.

BUDA—(N. D. No. 119.) (Certified.) Developed at the North Dakota Experiment Station by selecting wilt resistant plants from a Russian variety. It is resistant to wilt and more rust resistant than any other variety that we list. It grows taller than Winona and matures a few days later. Buda has yielded the highest per acre over a period of five years at Morris and Crookston Experiment Stations. Recommended for use especially in Minnesota, the Dakotas and Montana.

MINNESOTA NO. 25—This is a commonly grown variety which is very productive on soils free from wilt.
Prices: See Blue Figure Price List.

SOY BEANS, FIELD PEAS, VETCHES



This Field of Soy Beans Yielded a Heavy Crop of High Feeding Value. (Courtesy International Harvester Co.)

VALUABLE AS A HAY AND SEED CROP, AND FOR ENRICHING THE SOIL

1. Soy Beans are easy to grow, and are especially valuable for soil too poor or acid for other legumes.
2. They withstand both drought and heat well, and are not easily damaged by moisture.
3. They make a good emergency crop, as they can be sown late, after other crops fail or are washed out.
4. They deposit large quantities of nitrogen in the soil, building up poor land on which clover or alfalfa cannot be grown.

MOST IMPORTANT AS A FEED AND ENSILAGE CROP

1. Soy Beans as a hay crop, are higher in protein content than clover hay, or field peas and oats mixed. For dairy cattle, the hay is equal to alfalfa hay.
2. They make wonderful ensilage, when grown with corn, and are also used for hog pasture.
3. They take the place of oilmeal, and are even more digestible.

CULTURE. Soy Beans require about the same treatment as corn, and will grow on almost any kind of soil, shallow peat or sandy loam, and even ground containing too much alkali for corn. Do not plant Soy Beans too early, about corn planting time is right. Sow in drills using 30 to 45 lbs. per acre or broadcast, 60 to 90 lbs. Rows 28 to 30 inches apart are usually best, as the rows can be cultivated and kept free from weeds.

The seed crop is quite profitable. The seeds broken or split in threshing can be fed to livestock. For seed, the Soy Beans should be cut with a grain binder, while the dew is still on them, so they will not shatter. They can be threshed without much curing, if the seed is spread out so it cannot sprout in the bins.

MANCHU

This variety takes the lead among Soy Beans in the Middle Western States. It is outstanding for all purposes—hay, feed, hogging down, as well as for planting with corn for the silo. It will fully mature under ordinary conditions and grows large enough to produce excellent yields of hay or a large crop of beans. A good average crop will produce 20 to 30 bushels of beans per acre.

Manchu is a robust grower of vines which stand up well and are easily cut with the corn or grain binder. This variety matures in about 100 days, being well adapted to the southern half of Minnesota, Wisconsin, South Dakota and all sections farther south. In localities where the growing season is short, Manchu is preferred for hay purposes, but an earlier variety must be grown for seed. The beans are yellow and of medium size. Price: Lb. 20c, postpaid. See Blue Figure List.

WISCONSIN EARLY BLACK

An extra early sort, black seeded, and well adapted for planting in the Northwest where growing seasons are comparatively short. It grows to a medium height and therefore is not suitable for planting with corn for ensilage but it may be planted with early maturing corn for hogging down. It is very hardy, little affected by cold, wet weather and stands up well. It is very profitable to grow for seed, the production often being from 20 to 25 bushels per acre. The seed usually brings a higher price than the other varieties. Price: Lb. 20c, postpaid.

ILLINI

This excellent variety was first offered by us two years ago and since that time has become as popular as Manchu. It was developed by the Illinois Experiment Station and described as a better yielder than other varieties, somewhat taller and with pods higher on the stem. Many growers report that it is somewhat earlier maturing than Manchu and that it produces a larger tonnage of hay or beans per acre. It is not uncommon to obtain as high as 40 to 50 bushels of beans per acre; however, the average would probably be about 30 to 35 bushels which amounts to approximately 50 per cent more than other varieties.

Illini Soy Beans are yellow, the seed being slightly smaller and rounder than Manchu. You will appreciate this variety if you give it a trial. Price: Lb. 20c, postpaid. See Blue Figure Price List.

CANADA YELLOW FIELD PEAS

Field Peas are an important class of legumes, and should be more generally planted. Few farmers know the value of field peas as a hay crop and fertilizer. They fit into crop rotations well, and are better suited to conditions of the Northwest than any other annual legume, for building up worn-out soils.

Field Peas are usually grown with oats, for hay, a combination that is equal in feeding value to clover hay. They contain more digestible crude protein and fat than alfalfa and corn.

When they are grown with oats, they are threshed together, and easily separated with a fanning mill after threshing, thereby getting two crops from one operation. Sow 2 bushels oats to 1½ bushels of peas per acre. Drill the peas in 4 inches deep, as early as the ground can be worked. Then, 2 or 3 weeks later, sow the oats, drilling it in the other way. If the oats are sown with the peas, they grow too rapidly, and check or smother the growth of the peas. Price: Lb. 20c, 5 lbs. 75c, postpaid. For prices on larger quantities, see Blue Figure Price List.

WINTER OR HAIRY VETCHES

(Also Known as Sand Vetches.)

They are leguminous plants and are especially suited to localities where winters are very severe. They make good hay, ensilage, pasture and green feed, are very valuable as a fertilizer when turned under, and as a cover crop in orchards, preventing the washing away of the soil.

Winter Vetches may be sown together with Winter Rye for a hay crop, about August 1 to 20, using 1 bushel Vetches (60 lbs.) and 1 bushel Rye per acre—they mature about the same time and can be threshed together. Where summer pasture is desired, they may be seeded in the spring, either alone or with spring grains. They will not develop seed the same season when sown in the spring however, but will furnish pasture and hay. Price: Lb. 25c, 5 lbs. \$1.00, postpaid.

SUNFLOWER—MAMMOTH RUSSIAN

The production of Sunflower for ensilage and fodder is now advocated by many experiment stations. This is fairly profitable where the seasons are too short to grow other forage plants, sorghums, etc.

We do recommend Sunflower as a highly important and profitable crop for poultry breeders and farmers, for fattening hens or producing eggs. Single flower heads measure 12 to 22 inches across, containing a large quantity of seed. Stalks can be used for firewood. Price: Lb. 30c, 5 lbs. \$1.25, postpaid.

KAFFIR CORN

A good fodder plant for Iowa, South Dakota and sections farther south, that grows 5 to 7 feet high, with broad leaves and brittle green stalks. Green or dried, this makes excellent fodder for horses and cattle. The seed heads form at the top of each stalk. The seed is good as poultry food. Sow 10 lbs. of seed per acre, in rows 3 feet apart, or 50 lbs. per acre broadcast or in drills. Price: Lb. 25c, postpaid.

FETERITA

The most drought-resistant forage plant we have, especially valuable for the western prairie states. It is much like Kaffir Corn, but matures 20 days earlier, the seed is one-half larger, the heads plumper, and better filled. It is profitable for pasture, hay crop, ensilage or grain, and is used for feeding cattle, sheep, and poultry. Culture is same as for Kaffir Corn. Price: Lb. 25c, postpaid.

A valuable booklet entitled "Soy Beans" published by the International Harvester Company is offered free with your order for Soy Beans, if requested.

Inoculate Soy Beans, Field Peas and Vetch

with Nitragin or Humogerm to increase your yields and put fertility into the soil. They are recommended by all authorities. See page 60 for prices and full particulars.

MILLET

Although many farmers are now growing Millet regularly as a hay crop, it was not until the last few years that its value was fully appreciated as a quick-developing crop. Many find it of great value in case of crop failure of Clover and Timothy, when dry, spring weather cuts short the pasture and meadow grasses, or when there is a cold, wet spring and corn and other early sown crops are drowned out—it is then that Millet is fully appreciated.

Millets may be planted up to July 1 and even later, and still produce a crop of hay or pasture. Millet hay properly handled has great feeding value and milk-producing qualities. For hay it should be cut as soon as it blooms, before the seed forms, otherwise the hay is apt to be woody. In more southern sections Millet is sown as a catch crop after the grain has been harvested. It produces the best results in warm, rich soil.

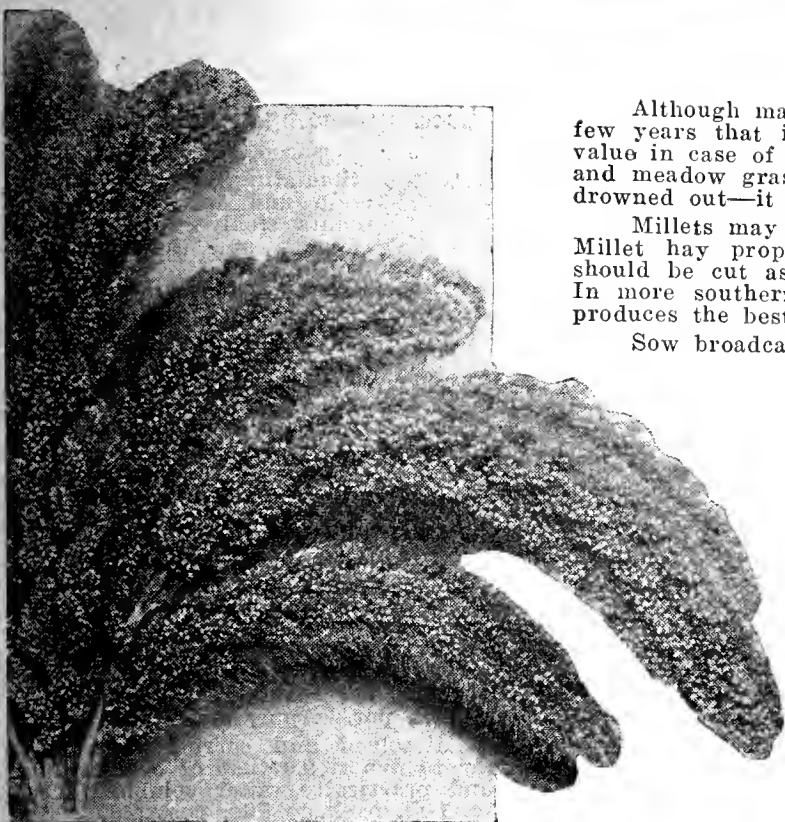
Sow broadcast, using about 40 lbs. per acre, covering seed three-quarters of an inch deep. For a seed crop, allow the Millet to ripen fully and harvest with a grain binder.

GERMAN OR GOLDEN MILLET—This is one of the best varieties for hay and fodder. It makes rapid, vigorous growth, often yielding 3 to 5 tons of hay per acre, on good rich soil. It grows 4 to 5 feet high, is of rather coarse appearance, and should be cut for hay before it is in full bloom. At this stage, the hay is of the best quality, and so tender it can be fed to hogs.

HUNGARIAN—The great value of this variety is in its earliness and fine quality. It is about a week earlier than German or Golden Millet, and much safer for northern sections, especially if sown late in the season. It does not grow as vigorously, but the hay is of finer quality, especially good for cattle, as it is nourishing and milk producing. We consider Hungarian Millet one of the best catch crops grown.

SIBERIAN—We consider this the best Millet for dry sections. It is extremely hardy, drought resistant, and about two weeks earlier than Golden Millet. It stools heavily, is very leafy, and yields enormous quantities of fine quality hay. It produces 50 to 70 bushels of seed per acre.

COMMON—Especially adapted for dry and light soil. It is very early and dwarf, growing 3 to 4 feet high, is hardier than Golden Millet, therefore better for cold northern sections and unfavorable conditions, but does not yield as heavily as Golden Millet.



German or Golden Millet.

PROSO MILLETS (Also Called Hersche)

EARLY FORTUNE—This seed is of a shiny reddish brown and is about the same size as Turghai and Hog Millet. The heads are compact and it matures rather early, growing about medium height. It is ready to harvest in 50 to 60 days after sowing. Early Fortune has been a very popular variety.

HOG OR BROOM CORN MILLET—The hay is of a coarse quality, except when cut very young. The seed is of high food value especially for poultry and hogs. It is yellowish white in color. Hog Millet is very early and drought resistant and will produce excellent yields of seed and hay.

JAPANESE MILLET

(Also Called Billion Dollar Grass.)

Japanese Millet is one of the best forage crops we have, for feeding all kinds of livestock. It ranks high in milk producing qualities, being rich in protein and fats. Combined with soy beans, as ensilage, it makes an ideal balanced ration, two parts of millet to one of soy beans being the right proportion.

Japanese Millet is adapted to all sections of the country; it makes more hay than any other millet, and requires less seed. It is the ideal catch crop, and may be sown any time from May to July.

For hay, cut it just before it blossoms, and cure the same as clover. It also makes good pasture, but the cattle must be accustomed to it gradually.

SUGAR CANE (SORGHUM)

MINNESOTA EARLY AMBER CANE—The Early Amber Sugar Cane grown in Minnesota is superior to that grown anywhere else. It is the earliest strain grown, very hardy, of fine quality, and yields from 12 to 20 tons of cane per acre, according to soil conditions and cultivation. It grows 12 to 18 feet high, yielding twice as much fodder, of much better quality, than any southern cane. Early Amber Cane and Fodder Corn are often planted together, and produce immense yields.

One acre of our Early Amber Cane will produce enough cane to make 175 to 200 gallons of syrup, of delicious rich quality, golden yellow in color.

We offer an improved strain of Minnesota Early Amber Sugar Cane which has been carefully bred for size, sugar content, and palatability. Sow 8 to 10 lbs. per acre for syrup. Prices: 1 lb. 20c, postpaid. 5 lbs. 80c, postpaid.

FODDER CANE

A profitable feed crop, that can be grown almost everywhere, producing even bigger yields than millet. As much as 30-35 tons of green feed have been harvested per acre. It makes good hay if cut before it grows too high, and can often be cut a second time. It matures much later than Early Amber Cane, and will not produce seed here. The seed is much cheaper than that of Early Amber Cane, and the yield of fodder much greater. Sow 50 to 60 lbs. broadcast or 12 to 15 lbs. in drills per acre. Price: 1 lb. 20c, postpaid. For prices on larger quantities, see Blue Figure Price List.

GAS ANTS—RATS—MICE—MOLES—WOODCHUCKS

Cyanogas A-Dust when exposed to the air, gives off a gas that is deadly to rodents and insect pests, and kills them almost immediately. The residue, after the gas has been given off, is ordinary slaked lime and is not poisonous. The pests don't have to eat Cyanogas—or even touch it. It gets them wherever they are.

Easy, Quick and Thorough

Cyanogas A-Dust is easy to use, economical and safe, and gives effective control of pests. Comes packed in air-tight containers and can be handled without danger to the user. It will not deteriorate if kept in air-tight tins. It is non-explosive and non-inflammable. Undoubtedly the most effective material for pest control.

Cyanogas A-Dust can be applied with a Cyanogas Duster or with a spoon, or by sifting. Full directions with each package. Circulars free. Prices: 1/2-lb. can 45c, 1 lb. 75c, 5 lbs. \$3.00, 25 lbs. \$10.00, 100-lb. drum \$30.00, f. o. b. Faribault.

Brass Foot Pump Duster

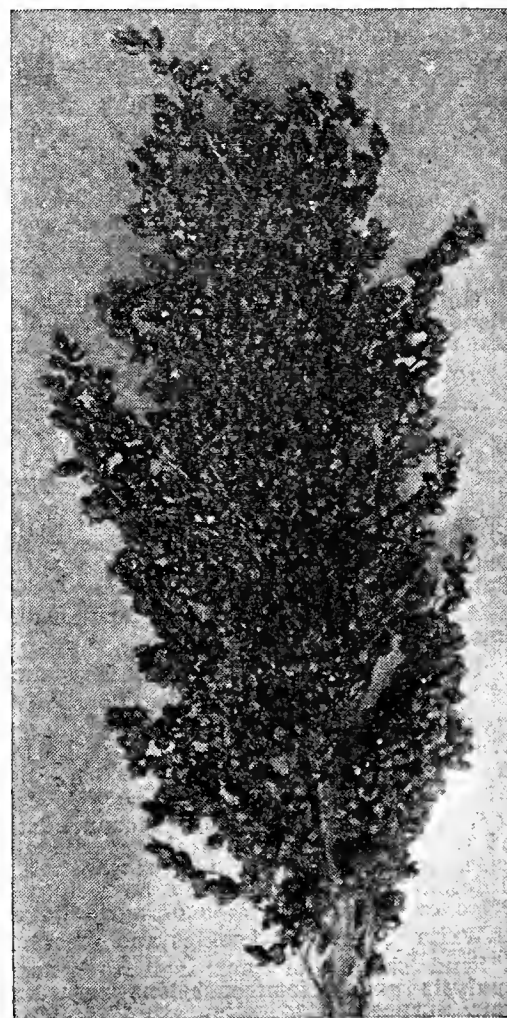
A high pressure duster. Produces a dust cloud, forced into all parts of underground passage-ways of the burrowing pests. Working parts of brass and aluminum. Price: \$5.00, not prepaid.

TURGHAI PROSO—This variety, introduced in 1930, has been found to be especially adapted to the Northwest as it will withstand considerable drought. It is a red seeded variety very much in appearance like the Early Fortune but the heads are of the open panicle type while the Early Fortune has a short compact head. Turghai Proso will yield nearly twice as much seed as some of the other varieties. It is slightly later than Early Fortune but will mature in any normal season.

Price on All Millet: 1 lb. 20c, postpaid.—For prices on larger quantities, see Blue Figure Price List.

FIVE REASONS FOR GROWING JAPANESE MILLET:

- 1—It grows 4 to 8 ft. high and produces 5 to 6 tons of hay per acre.
 - 2—It is drought-resistant, yet can be grown on wet or poor soil not fit for other millets.
 - 3—It is good for exterminating quack grass as it stools heavy.
 - 4—It is cheap to sow, only 15 to 20 lbs. of seed per acre being required.
 - 5—It is very palatable and is liked by all classes of livestock.
- Do not plant millets until the soil is warm and danger of freezing is over.



Minnesota Early Amber Sugar Cane.

THE ALL PURPOSE BALANCED FERTILIZER

SACCO

TRADE MARK REG. U.S. PAT. OFF.

Makes Things Grow

SACCO is the finest of fertilizers—a combined soil rectifier and growth producer for use on LAWNS, GARDENS, SHRUBS, FLOWERS, TREES, POTTED PLANTS and VEGETABLES. It is a well-balanced preparation containing ALL THE FEEDING ELEMENTS essential to the perfect growth and development of all plants.

EASY TO APPLY—ECONOMICAL TO USE

Use 2 to 4 lbs. for every 100 sq. ft. (10x10 ft. area). Full directions for applying SACCO are printed on each package.

One Application Produces Amazing Results.

A single SACCO application can be depended upon to make grass and vegetables grow vigorously and to make flowers and shrubby beautiful with bloom and foliage. This plant food gives quick results, is easy to apply and, because only a small quantity is required, is very economical. SACCO has no offensive odor.

SACCO is Recommended by Highest Authorities.

SACCO has the approval of horticulturists and of many thousands of satisfied users. On the lawns of fine homes—on golf courses—in private gardens—in hot-houses—and in the nurseries of progressive florists and commercial growers—SACCO has proved its unquestionable superiority.

The 80 cent size—10 lbs.—is sufficient to fertilize plot of lawn 20x25 ft. The \$1.60 size—25 lbs.—will cover plot 40x30 ft. See "Amount to Apply" above.

Price: 5-lb. bag 40c, 10-lb. bag 70c, 25-lb. bag \$1.40, 50-lb. bag \$2.35, 100-lb. bag \$3.95, f. o. b. Faribault.

A booklet of Detailed Instructions is contained in each package.

SPECIAL LAWN FERTILIZER



**FOR
WEED CONTROL
IN LAWNS**

Here is an ideally balanced fertilizer made especially to rid your lawn of weeds. Grass will grow luxuriantly and weeds will gradually disappear. WEDO is formulated after recommendations of leading experiment stations and soil authorities. It contains the recommended amounts of nitrogen, phosphates and potash most suitable to lawn grasses.

WEDO is an ideal fertilizer for Creeping Bent Lawns and putting greens.

WEED ELIMINATING FEATURES

Incorporated in WEDO are the valuable weed eliminating features of sulphate of ammonia and other weed control elements.

How Much WEDO to Buy

Only one pound is required for 100 square feet. Multiply the dimensions of the area to be treated and divide by 100. This will give you the number of pounds required.

10 lbs. 80c, 25 lbs. \$1.65, 50 lbs. \$2.75, 100 lbs. \$4.75.

SACCO FARM CROP FERTILIZERS

Amounts of Various Fertilizers to Use Per Acre

Corn .....200-500 lbs. per acre	Sugar Beets.....200-600 lbs. per acre
Wheat .....200-250 lbs. per acre	Beans .....200-300 lbs. per acre
Oats .....150-200 lbs. per acre	Cabbage ...200-300 lbs. per acre
Potatoes ...500-800 lbs. per acre	Tomatoes ...300-600 lbs. per acre
Alfalfa—200 lbs. per acre new seeding. 300 lbs. per acre top dressing.	

General Recommendations

	Nit. Phos. Pot.		Nit. Phos. Pot.
Corn 0—20—0 and..4—16—4		Tomatoes .....4—8—6	
Wheat .....2—12—6		Potatoes .....4—8—6	
Rye & Barley.....2—12—6		Soy Beans .....0—16—6	
Alfalfa .....0—16—6		Oats .....2—12—6	

The above amounts and recommendations are based upon experiments of the various agricultural experimental stations. However, in some cases a peculiar condition of the soil would require a fertilizer of a different nature. It would be well to take such matters up with our office or the departments of agriculture of your state.

Write for special booklet and prices.

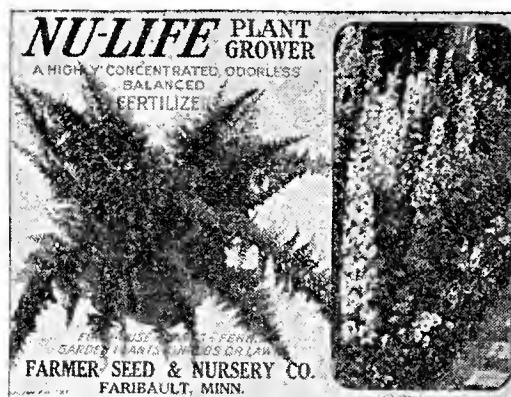
Send sample of your soil to your experiment station for special analysis and recommendations regarding the formula best suited for your purpose.

"Make the Soil Productive"—All about fertilizers and

HIGHLY CONCENTRATED FERTILIZER

NU-LIFE PLANT GROWER

Will pep-up the sickest plants—Used by leading gardeners and florists



The best of plants need stimulating. The soil becomes stale and worn out and the plants sickly—then the leaves discolor and the blooms lack brilliancy.

Here is where Nu-Life Plant Food comes to the rescue. Immediately results will be noticed. It is easy to use, entirely odorless, and it will put new life into your sick plants. It will pep up your flower bed and stimulate growth of all vegetation, indoor or outdoor. Nu-Life Fertilizer will produce more perfect flowers or fruits, and healthy foliage.

Because Nu-Life is a most highly concentrated plant food

and contains 15% Nitrogen, 30% Phosphoric Acid and 15% Potash, only a small amount is required per pot. For a sick plant, scatter a two-finger pinch of Nu-Life on the soil. After a new leaf growth has started, use a level teaspoonful of Nu-Life with a gallon of water and apply approximately half a teacup full per plant on a three-inch pot and a teacup full on a four or five-inch pot. Apply every two weeks.

Nu-Life Plant Food is readily dissolved and carried right to the roots. Its fertilizing value is four to five times that of ordinary plant food. It is properly balanced and practically water soluble. Liberal Trial Size 10c, 1/2-lb. package 35c, 1-lb. package 50c, postpaid.

Special—Try a 10c packet; return the empty packet for credit of 10c on a 50c size package.

"DU BAY" SEED DISINFECTANTS

Prevent Diseases—Increase Profits

SEMESAN—For treating vegetable and flower seeds and brown patch in lawns. Diseases often reduce germination and result in poor stand, lowered quality and reduced yield. Kill these harmful disease organisms on the seed before planting. Semesan may be applied as a dust or liquid and is harmless to seeds. Effective in controlling damping-off of seedlings. Full directions in can. Prices: 2 ozs. 50c, 1 lb. \$2.75, 5 lbs. \$13.00, 25 lbs. \$56.25, not prepaid.

SEMESAN BEL—For treating seed potatoes. Potato diseases cause a loss equivalent to the yield of 1 acre in every 5 or 6 acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Improves germination and usually produces a bigger crop of better quality. One pound treats 70 to 80 bushels of seed. Prices: 4 ozs. 50c, 1 lb. \$1.75, 5 lbs. \$8.00, 25 lbs. \$31.25, not prepaid. Pamphlet free.

SEMESAN JR.—For treating seed, field and sweet corn. Our corn crops are reduced over 80 million bushels annually by diseases that are carried on the seed. Destroy these costly diseases by treating your seed corn with Semesan Jr. Simple, quick, effective. Costs only 2 1/2c an acre. It destroys harmful disease organisms on the seed, protects seed from rotting in cold wet soil, makes earlier planting possible, controls seedling blight, reduces root and stalk rots, and generally increases crop yields. Use 2 ozs. per bushel of seed. Prices: 4 ozs. 40c, 1 lb. \$1.50, 5 lbs. \$7.00, 25 lbs. \$31.25, not prepaid.

CERESAN—For treating seed grains. Prevent losses and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling smuts of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Only 2 ounces needed per bushel of seed wheat, rye, sorghums or millets and 3 ounces for oats and barley. Prices: 1 lb. 75c, 5 lbs. \$3.00, 25 lbs. \$12.50, not prepaid. Pamphlet free.

LENOX MISTY SPRAYER

Just the thing for house plants or small shrubs. It throws a fine misty spray under or over the plants, thoroughly drenching the foliage and removing dust and insects. Any liquid insecticide or poison may be used, and with this sprayer every part of the plant can be covered with effective results.

Price: 75c. Extra bulbs 30c each, prepaid.

INDISPENSABLE GARDEN BOOKS

AUDELS GARDENERS' AND GROWERS' GUIDE—4 volumes, 1,700

pages, hundreds of illustrations. A Treasure Store of Success Secrets. Tells how to prepare the soil, how to plant, grow and improve vegetables, fruits and flowers. Flexible art binding, \$5.35, prepaid. Circular free.

AUDELS FLOWER EDUCATOR—600 pages, hundreds of illustrations. Gives successful directions for planting and growing Annuals, Perennials, Bulbs, Shrubs and Fine Lawns. Invaluable to every gardener. Flexible art binding, \$1.50, prepaid.

their use—64 pages, illustrated, 10c, prepaid.



Send for Acme Sprayer Chart and Guide—It's Free.

ACME GARDEN GUARD—A garden insecticide and fungicide for use as a dust. No water, no mixing, no muss. For use on cabbage, cauliflower, tomato plants, melon vines and other vegetables, currants and gooseberries, flowers and shrubs of many kinds. Price: 1 lb. sifter carton 30c, prepaid.

ACME BORDEAUX MIXTURE—Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. Price: 1 lb. 35c, prepaid.—Not prepaid, 1 lb. 30c, 4 lbs. 70c.

ACME ARSENATE OF LEAD—The most favored arsenical insecticide. It is safest to use on tender foliage and sticks well on the leaves. Can be used as dust or spray. Price: 1/2 lb. 20c, 1 lb. 30c, 4 lbs. 75c, not prepaid.



ACME ALL ROUND SPRAY—One product which will combat blight and fungous diseases, control sucking insects and destroy chewing insects in one application. Price: 1/4 lb. 35c, 1 lb. 85c, not prepaid.

ACME LIME SULFUR—Summer spraying against scab, soot, blotch, red spider and mite. Price: 1 lb. 35c, prepaid.—Not prepaid: 1 lb. 30c, 5 lbs. \$1.35, 10 lbs. \$2.50.

ACME BAIT-M—For use against snails, cutworms, sow bugs, grasshoppers and many other insects which migrate along the ground. Price: 1 lb. 40c, 3 lbs. 75c, prepaid.—Not prepaid: 15-lb. carton, \$2.50.

ACME DUSTING SULPHUR—Keep your roses free from mildew, black spot, leaf spot and other hideous fungous diseases. Acme Dusting Sulphur is a tonic for roses, chrysanthemums, phlox, delphiniums, sweet peas, lilacs, snapdragons and carnations—to make these flowers and many other plants yield their full measure of sweetness and beauty. Mailable. Price: 3-lb. sifter carton, each 40c, prepaid.

LICE POWDER—Will successfully kill body lice on chickens, horses and cattle. It is very effective when applied to roosts, walls and crevices with a powder gun. Price: 1 lb. 30c, prepaid.—Not prepaid: 1 lb. 25c, 5 lbs. \$1.00.

TOBACCO DUST—Destroys rose bugs, lice, vine bugs, tomato worms, currant worms, cabbage lice, and the parasites of all descriptions. Apply when foliage is wet. Price: 1 lb. 30c, prepaid.—Not prepaid: 1 lb. 25c, 5 lbs. \$1.10, 10 lbs. \$2.00.

SLUG SHOT—The standard remedy for worms, rose slugs, caterpillars, cabbage worms, and all soft shelled insects—effective, and entirely harmless to plants. Use on potatoes, currants, cabbage, roses, bushes. Price: 1-lb. carton, with perforated top, ready for use, each 30c, prepaid.—Not prepaid: 1-lb. carton 25c, 5 lbs. 85c, 10 lbs. \$1.50.

"NOK-EM-KOLD" GARDEN INSECTICIDE—Endorsed by many market growers associations and used in our own trial grounds. It controls cabbage and cauliflower worms, cucumber beetles and all insects infesting vine crops, berries and shrubs. Dust on while the foliage is damp with dew. Will not burn or injure plants or fruit. Price: 1 lb. 25c, prepaid.—Not prepaid: 5 lbs. 80c, 10 lbs. \$1.25.

"BLACK LEAF 40"—(Sulphate of Nicotine.) Is especially recommended for killing the green aphid or lice which usually appear on sweet peas, cucumber and other vines. It can be used for spraying all kinds of plants. Also very valuable when used as a dip for cattle and sheep. A 10-lb. can of "Black Leaf 40" will produce 960 gallons of dipping solution. Cannot be sent by mail. Price: By express, 1-oz. bottle 35c, 8-oz. tins \$1.35, 2-lb. tins \$3.75, not prepaid.

Delouse poultry by painting roosts with "Black Leaf 40."

SEMESAN BEL—For Potatoes. Potato diseases cause a loss equivalent to the yield of 1 acre in every 5 or 6 acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Improves germination and usually produces a bigger crop of better quality. One pound treats 70 to 80 bushels of seed. Price: 4 ozs. 50c, 1 lb. \$1.75, prepaid.—Not prepaid, 5 lbs. \$8.00, 25 lbs. \$31.25.

EVERGREEN—Non-Poisonous Insecticide. Effective against most other plant pests, including cucumber and melon beetles, cabbage worms, rose slugs, leaf hoppers, currant worms, etc. Safe—kills only insects—harmless to man, livestock, birds and pets. Non-injurious—Spray freely on the tenderest plants. Won't injure the ground. Price: 1-oz. bottle 35c, 6-oz. bottle \$1.00, prepaid.

POULTRY REMEDIES

MINK'S LOUSE KILLER OINTMENT—One application keeps hens free from lice for six months. Pays its cost tenfold in increased egg production. Wonderful remedy for head lice on baby chicks and turkeys. If not completely satisfied, return empty box and get your money back. One box sufficient for treating 75 to 100 hens. Perfectly harmless. Price: 80c, prepaid.

PROTECT POULTRY AGAINST ROUP, COLDS, ETC.

One treatment with Hen-O-Mist and Hen-O-Fume brings relief to a whole flock at once. Penetrating fumes from these remedies quickly clear up the worst cases. Very easy to use. Results guaranteed.

Money back if Hen-O-Mist and Hen-O-Fume inhalant don't do the work. We suggest using combination treatment—one large can of each, for \$1.50, or either remedy separately for 75c, prepaid. Send your order NOW, and be ready if roup, colds or bronchitis break out in your flocks.

Hen-O-Fume is an ideal hog remedy for treating flu or pneumonia.



IF INTERESTED IN BABY CHICKS, WE CAN SAVE YOU MONEY—SEND FOR SPECIAL CHICK CATALOG FREE.

KILL INSECTS

Quicker—Safer—Easier

with

KALO NON-ARSENICAL INSECTICIDES

Using Proven, Modern Principles,
Controlling More Insects

WITHOUT ARSENIC



KALITE—a quick-killing dust for most chewing insects, as Beetles, Worms, Caterpillars, including Cucumber Beetles, Mexican Bean Beetles, Cabbage and Tomato Worms, Blister Beetles, Flea Beetles, and many others not killed by old-fashioned insecticides. Safe to use. Does not burn foliage.

1 lb. can 35c 3 1/4 lb. can \$1.00 50 lbs. \$5.50

KALO SPRAY

—used as a wet spray for same insects as Kalite. Also for Codling Moth, Oriental Fruit Moth, Curculio. Safe to use and safe for foliage.

1/2 lb. can 35c 4 lb. bag 90c



KALOIL—a non-poisonous spray for most insects. An economical pyrethrum contact spray. Mixes readily with any water for instant use. Needs no soap. Particularly for sucking insects such as Aphid (plant lice), Leaf Hoppers, Mites, Thrips, White Flies.

1 1/2 oz. can 35c 6 oz. \$1.00 32 oz. \$3.50

KALITE AND KALOIL ARE AVAILABLE

Prices over one pound are not prepaid.

CORONA RABBIT AND MOUSE REPELLENT

Save your Trees with this simple non-poisonous, harmless vegetable oil. Prepared according to the formula of Prof. R. B. Harvey of the University of Minnesota, Department of Agriculture.

This oil is chemically treated to rubber consistency. It has a strong, disagreeable odor which repels rabbits and mice. It contains no poison and therefore cannot injure the bark. The oil forms a tough protective covering over wounded tissues.

Paint the tree trunk with a liberal coating, a couple of feet above the snow line, down to the ground. Corona Rabbit and Mouse Repellent may be diluted with linseed oil or turpentine. It is inexpensive to use and very effective. (Circular free.) Price: Per qt. (2 1/2 lbs.) 75c, 1 gallon (9 lbs.) \$2.50, 5 gallons \$2.00 per gallon, f. o. b. Faribault.

F. S. & N. CO.'S TREE SAVER

F. S. & N. Co.'s Tree Saver is a scientifically prepared plastic compound that makes easy the problem of tree surgery for anyone. No experienced tree surgeon is needed. It is ready for instant use in repairing damage, healing a wound and keeping out disease. It contains 18 ingredients beneficial to trees, medical oils to heal wounds and non-injurious acids to destroy fungi, insects and worms. Every tree lover should have a can of F. S. & N. Co.'s Tree Saver on hand, the scientific healing filler for cavities. It does not shrink but is light in weight, elastic and waterproof. Full instructions with each package. Price: 1 lb. 35c prepaid, 2 1/2 lbs. 80c prepaid, 5 lbs. \$1.50 prepaid.

"BLACK CAT" NON-POISONOUS EXTERMINATOR

"BLACK CAT" RAT and MOUSE KILLER is Harmless to Man, Domestic Animals, Baby Chicks, Poultry, Dogs and Cats, but Kills Rats, Mice and Gophers Quickly. May be safely used around the home, barn, poultry house, warehouse or any rat or mouse infested building. "BLACK CAT" can be mixed with butter, ground meat, corn meal or other food. Rats and mice will eat it readily, and it drives them outdoors to die.

Rats and mice are the most destructive animals in the world, carry disease germs from house to house, and are hosts to the mites and fleas which feed on men and spread bubonic plague, typhus fever, etc.

GUARANTEED to kill rats, mice and gophers and nothing else, when used according to directions. Send today. 50c per package, prepaid.

ACME APHIS SPRAY

An improved nicotine spray combining a soft fish oil soap with Black Leaf 40, suitable for the control of all kinds of aphid (plant lice), thrip, leaf hopper and many more hardy insects infesting rose bushes, flowers, shrubs, vines, bushes and trees. Mixes easily with any kind of water. Complete directions found with every package. Price: 3-oz. collapsible tube 35c, 12-oz. collapsible tube 95c, 2 1/2-lb. can \$2.25.

See Page 71 for Cyanogas Pest Exterminator.



THE NEW AMERICAN GARDENER No. G-2

A complete garden outfit for all purposes. 1—A plow for trenching; 2—A scuffle hoe or sweep for weeding; 3—A cultivator for breaking up the soil; 4—A mulcher, pulverizer or rotary hoe for pulverizing, killing weeds, stimulating plant growth and leaving a dust mulch to save moisture. It is simple, compact, easy to use and speedy. This single tool will do everything that any other tool or combination of tools will do.

The mulcher attachment is interchangeable with trenching plow. Loosen the hand wheel and turn any one of these tools into position. Fully guaranteed.

For a seeding attachment, we recommend Midget No. 2—described below. Weight, 23 lbs.

Price: Complete \$4.25, not prepaid.

4 TOOLS IN 1

\$4.25
Complete



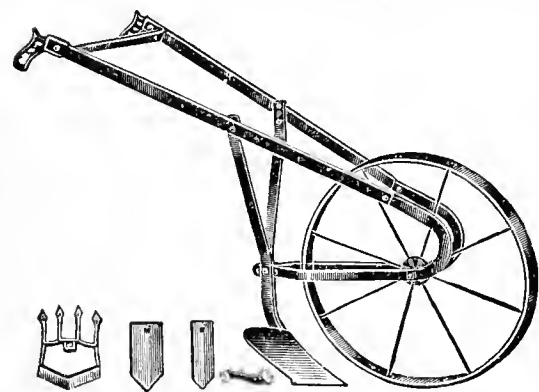
"STANDARD" No. 20 SINGLE WHEEL CULTIVATOR—\$2.95



With this tool you can get your money's worth in a few hours' work, whether you have five acres, one acre or a garden only 25 feet square. Has a strong steel wheel 24 inches in diameter, making it work easily and carrying the tool in perfect balance. The handles are quickly adjusted to suit the height of the operator or to regulate the depth desired to run attachments. The equipment includes double end shovel mold-board with landside, combined sweep and rake, (practically 5 tools). Weight, 18 lbs.

Price: Complete, \$2.95, not prepaid. Catalog free.

SPECIAL No. 105 HIGH-WHEEL CULTIVATOR— New Low Price \$2.25



handles green. Price: Complete, \$2.25.

A practical all carbon steel cultivator—at a new low price. This cultivator has a wide range of adjustment of handles and attachments to insure ease of operation by a small boy or a large man. The wheels run on steel bushings. The frame is one inch wide and 1/4 inch thick, with easy malleable grips. Wheel is 24 inches—8 spokes with 1 1/4-inch heavy rim. Attachments—Mold-board, plow, rake and sweep, 2-inch shovel, 3 1/2-inch shovel. Weight, 25 lbs. Frame painted black—handles green.

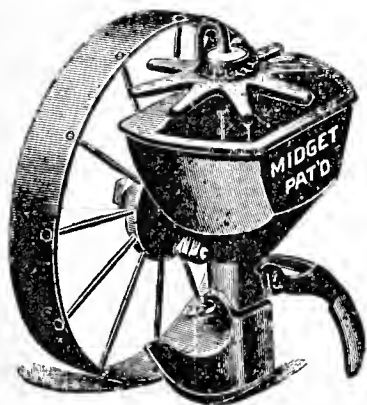
STANDARD MIDGET SEEDER No. 1—

The Gardeners' Favorite—\$2.75

For sowing any kind of seed, from the smallest up to peas, and beans, in any quantity. Will attach with one bolt to any Standard Single Wheel cultivator, or any other Single Wheel cultivator, having 5 1/2 inches or more space between shank and wheel. Shoe is adjustable for any depth and coverer swings easily. Shipping weight, 8 lbs.

The most popular seeder on the market.

Price: Set up, ready to be attached, \$2.75. With handle, \$3.75.



STANDARD MIDGET No. 2

This perfect seeding device will hold one quart of seed. It drills accurately all kinds of seeds from radishes to peas or beans, covering at uniform depth and giving an even stand. Use this tool in combination with the new American Gardener and you have a complete outfit that will meet every requirement of your garden from seed time to harvest. An ideal combination with No. G2.

Price: \$3.75, not prepaid. Shipping weight, 10 lbs.

Ask for Complete Descriptive Catalog of tools in which you are interested.

"TRUE TEMPER" ROTARY MULCHER-CULTIVATOR

A complete outfit—Mulcher, Weed Killer, Pulverizer, Cultivator. Nothing to add—nothing to get lost. Its unique design, high grade quality, durable and attractive finish make it appeal to all users. It is better than most tools of this kind.

The Reel is 8 1/4 inches in diameter. The knives on the reel are 2 1/2 inches wide, so formed on the inside as to keep the reel from "digging in," or running deeper than it should in sandy or mellow earth.

The Scuffle Hoe is 1 1/2 inches wide, made of high carbon steel, sharpened on both edges and polished on both sides.

The Cultivator unit has three oval shovels of carbon steel, nicely polished, each measuring 1 1/2 inches wide by 7 inches long. They are adjustable for width of row.

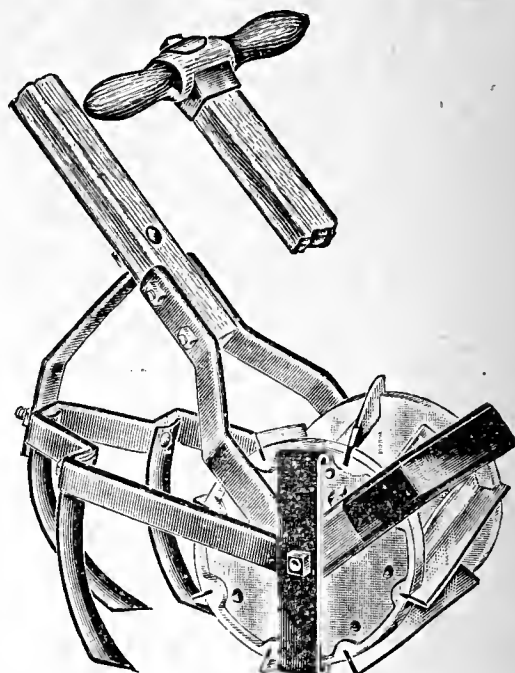
The center shovel sets well back of the other two, thus giving desirable clearance.

The Leaf Guards are self-adjusting and oscillating.

Finished in aluminum, red and green with handle varnished in natural color. Packed in carton, handles separate.

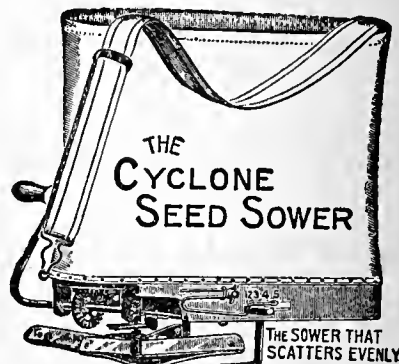
Price: No. T8 1/2, 8 1/2 inches cut, shipping weight, 17 lbs., \$3.85. No. T10 1/4, 10 1/4 inches cut, shipping weight, 18 lbs., \$4.25.

F. o. b. Faribault.



CYCLONE HAND SEEDER

Grass Seed mixtures cannot be seeded to advantage with the grass seeder attachment to the grain drill because of clogging and uneven work. The Cyclone Seeder is simple, light but strong. It will sow timothy, clover, millet, and grass seeds, as well as flax, wheat, rye, oats, buckwheat, turnips, and fertilizers perfectly even. Any desired quantity, from one quart to three bushels can be sown, per acre. Canvas bag holds one-half bushel seed. Shipping weight, 4 pounds. Price: \$2.00, not prepaid.



HORN HAND SEED SOWER

Has a heavy canvas bag, with shoulder strap. The tube is in 3 sections, 30 inches long. The larger end fits into a stub joint which is fastened to the bag, and in which is a gauge to regulate the sowing of the seed. Holds about one-half bushel of seed, operates quickly and easily, for all broadcasting seeding. Shipping weight, 1 lb.

Price: \$1.00 each, postage 10c extra.

WHEELBARROW SEEDER

This seeder will sow accurately clover, timothy, millet, flaxseed and other heavy grasses. The wheel is 30 inches in diameter, with tire 1 1/2 inches wide. The feed is controlled by an improved force feed roll driven by the wheel, so the gait of the man operating the machine does not affect the feed of the seed. The seed is carried so low down that it cannot be scattered by the wind. This seeder will sow 25 to 40 acres per day. Weight, about 50 lbs.

Price: No. 10—14-foot machine, \$11.40.

No. 11—16-foot machine, \$12.20.

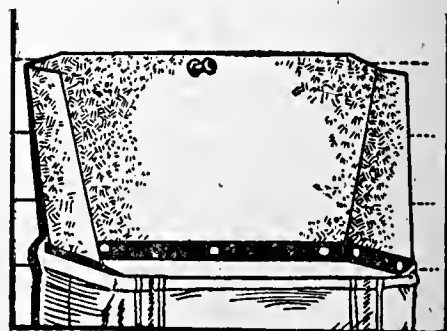
No. 12—With Double Hopper, for sowing light grasses and mixtures, Blue Grass, Bromus, etc. Weight, 55 lbs. 14-foot machine, \$14.00.

NEW IDEA SACK HOLDER

Saves the work of an extra man in sacking grain, corn, etc. No supports needed—hang it anywhere, or use it as a scoop in filling a bag from the bin. Holds bag securely.

The New Idea Sack Holder is made of heavy galvanized iron and will last a lifetime.

Price: 75c each, prepaid.



IDEAL WEEDER

Indispensable for all garden work. Just the thing for close work around delicate plants. Most practical weeder on the market. Used by the best gardeners everywhere.

Price: 25c each, 3 for 65c, postpaid.

EEZY WEAR GARDEN GLOVES

All-Leather—Dirt-Proof—Soft as Kid—Extra Pliable.

Ideal gloves for men and women, made from select imported leather processed to render it amazingly soft and pliable, as well as durable. Permit almost barehand freedom with perfect comfort, yet insure complete protection from dirt, scratches, bruises, stains. Economical—outwear 6 pairs of fabric gloves and are useful the year 'round for Garden, Housework, Painting, Yard, Furnace, Garage, etc.

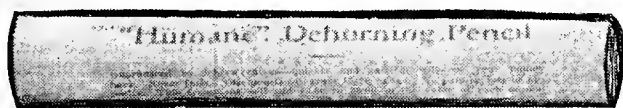
WASHABLE!

Sizes for women: "Small," "Medium," "Large"—for men: "Medium," and "Large." Price: 75 cents a pair (2 pairs, \$1.40), postpaid.

ACME DAWG-GONE

Protect that evergreen—keep dogs away. Remove cap and hang tube of Dawg-Gone (opening down) in the lower branches of trees at the points of approach. Not necessary to place tube in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance from six months to a year winter or summer—replaces unsightly wire screens or mechanical contrivances. Mailable. Tubes: 35c each or 3 for \$1.00.

"HUMANE" DEHORNING PENCIL



The value of a calf is increased \$2.00 by dehorning. The brutal method of sawing off the horns is obsolete. Check the growth of horns in young calves with our "Humane" Dehorning Pencil. One application does the work, so simple any boy can do it—does not injure the calf, is entirely painless. We absolutely guarantee satisfaction, or refund your money. Each pencil will dehorn from 15 to 20 calves, at a cost of about 4 cents per calf. We have sold "Humane" Dehorning Pencils for many years, and to our knowledge not a single pencil has been returned to us as unsatisfactory. Include one with your order. Price: 50c per pencil, 3 for \$1.20, prepaid.

F. S. & N. Co.

Carpenter, Ohio, Oct. 31, 1932.

Kindly send one "Humane" Dehorning Pencil at once. Have used different kinds of Dehorning Pencils, but like your "Humane" Pencil the best—it always gives results, and I hope to receive Pencil by return mail. Sylvester Huston, R. 2, Box 38.

HOME THERMOMETER

Let this tested thermometer help keep your home comfortable, or keep a check with it on the temperature of the barn or out of doors. There is nothing more useful than a good thermometer and thousands of "Farmer Brand" thermometers are now in use. Price: 25c, prepaid.

WEAR PROOF WOOD LABELS

Mark your shrubs, trees and plants; the cost is small and what a lot of satisfaction to have everything properly identified. Will last indefinitely.



No. 10—Wood Labels. Size 5/8 x 3 1/2 inches, copper wired. Price: Per 100, 45c; per 1,000, \$3.25, prepaid.

No. 410—Wood Pot Labels. Size 5/8 x 4 inches, with pointed ends. Price: Per 100, 45c; per 1,000, \$3.25, prepaid.

MOSS PEAT MAKES BETTER GARDENS AND LAWNS

"Sure Crop" Moss Peat is a native soil conditioner. It is a big factor in developing friable soil and a balanced top soil to retain moisture.

If you are having trouble with your lawn, if your soil is light and sandy, "Sure Crop" Peat will show wonderful results.

Two ounces of "Sure Crop" Peat are capable of absorbing one pound of water. Use it around the base of roses, shrubs, perennials, your window and porch boxes, among ferns and potted plants.

One bale of "Sure Crop" Peat will provide top dressing for 800 to 1,000 square feet of soil. It is inexpensive to use.

"Sure Crop" Peat contains life-giving humus essential to plant growth—high in nitrogen content and is free from silt and weed seeds.

For the lawn, a top dressing should be made late in April or early May. A small amount of Sacco fertilizer may be applied at the same time, or mixed with the peat. This will provide a balanced plant food and a moisture holder that should show results quickly.

For Shrubs, Roses, Perennials, etc., spread "Sure Crop" Moss Peat around the base of the plant to a depth of about one-half inch.

Price: 5-lb. package 65c, prepaid; 10-lb. package \$1.00 (prepaid to 3rd zone). Not prepaid: 1/2 bale, about 60 lbs., \$1.25. Medium bale, about 90 lbs., \$1.95. Large bale, 100 to 110 lbs., \$2.25.

COARSE MOSS PEAT. For poultry and stable litter. Is used by leading poultry and dairymen. Not recommended for lawns.

Price: 50 lbs., \$1.65; medium bale, \$1.85. Not prepaid.

We can save you money on Baby Chicks—Send for special catalog showing best breeds in natural colors.

ACME ANT-KILL

Rid your home and premises of the embarrassing and health-injuring ant nuisance. Kill the ants in the nest. Ant-Kill syrup is sold in connection with safe patented service cups which gives protection to birds, chickens, pets and children, yet readily accessible to ants who carry the syrup back to the nest. Attractive to Argentine and sweet-eating ants. Price: Cottage Set—3-oz. Syrup, 5 cups 80c each, Junior Set—2-oz. syrup, 2 cups 50c each, 2-oz. bottles 30c each, 1/2 pint 70c, pint \$1.00, Service Cups 10c each, prepaid.



"SURE-CATCH" POCKET GOPHER TRAP



Few farmers realize the losses caused by pocket gophers. Most counties pay bounties to check these farm robbers, but only recently has a trap been brought out that will really get a pocket gopher nine times out of ten. This trap is so simple and effective that the manufacturers back it with an unlimited guarantee to do the work, or you return the trap and get your money back.

The "Sure-catch" Trap is a little over 9 inches long. Is easy to set—perfectly harmless to handle and fits into the gopher hole, half length. The trap is not covered and the gopher from within trips the trigger as he attempts to cover up the hole. Boys and girls make good money trapping pocket gophers, at a small fee from farmers and collecting bounty besides.

Part of 104 Pocket Gophers caught in one night near Castle Rock, Minn.

Price, with full instructions—85c each, 6 for \$4.75, prepaid.

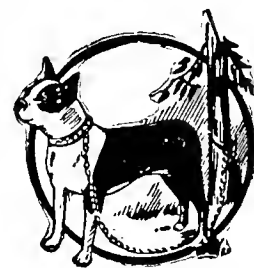
Cyanogas—For Exterminating Gophers, Rats, Mice, Ants, Prairie Dogs, Sparrows, Fleas, etc., Is Described on Page 71.

HEGER DOG AND BIRD FOODS AND REMEDIES



REG. U.S. PAT. OFF.

The well known, nationally advertised line of pet supplies. Backed by 40 years' experience in perfecting formulas that have made Heger Products famous throughout the nation.



Bird Foods and Remedies

Imported Mixed Bird Seed. (16 oz.) pkg. 30c, prepaid.
Liberty Bells. A health food and conditioner to hang in cage—a real exerciser and song tonic. 15c each, 2 for 25c, prepaid.
Vit-A-Song. A cod liver oil vitamin food. (4 oz.) package 30c, prepaid.
Heger Song Restorer. A treat and conditioner. (3 1/4 oz.) pkg. 30c, prepaid.
Pepper Food. A moulting and color food. (3 1/4 oz.) pkg. 30c, prepaid.
Heger Plumage Restorer Tablets. 30c, prepaid.
Heger Medicated Seed Cake. 20c each, 2 for 35c, prepaid.
Heger Mite Powder. (1 oz.) pkg. 20c, prepaid.
Heger Cuttlefish Bone (With Holder). 15c, prepaid.
Heger Gravel for Cage Birds. 15c, prepaid.

Dog Foods and Remedies

Heger Circles for Dogs. (15 circles.) 40c, prepaid.
Heger Kibble Food. 2-lb. pkg. 35c, not prepaid.
Heger Kibble Food. 5-lb. pkg. 75c, not prepaid.
Heger Worm Tablets. Pkg. 50c, prepaid.
Heger Worm Tablets for Puppies. 50c, prepaid.
Heger Flea Powder. 30c, prepaid.
Heger Flea Soap. 30c, prepaid.
Heger Condition Tablets. 50c, prepaid.
Worm Tablets for Cats. 50c, prepaid.
Natural Fish Food. 1-oz. pkg. 15c, prepaid.
Wafer Fish Food. 1-oz. pkg. 15c, prepaid.
FREE—A 24-page Booklet, "The Authentic Care and Treatment of Dogs," or a 24-page Booklet, "The Authentic Care and Treatment of Birds," sent free with an order of 50c or more of Heger Products—also sold at 10c each.

A REMARKABLE SEED DISCOVERY IMPORTANT TO YOUR HEALTH AND WELFARE

Now Within Reach Of All

The
Health
Regulator
of the
Nation

BLOND PSYLLIUM OVATA

Recently there has been discovered in far off India a remarkable new laxative—not a drug or medicine, but a marvelous little seed known as **Blond Psyllium Ovata** which has proven a phenomenon as a natural aid in the treatment of constipation.

It is absolutely safe, harmless and non-habit forming. These little seeds which look like tiny grains of wheat, owe their special value to their ability to supply both bulk and lubrication needed for efficient bowel action.

The action of Blond Psyllium is wholly according to nature's laws. When immersed in water the seeds swell to many times their normal size, and in this way produce essential bulk. They also give off a gelatinous oil which produces mild and efficient intestinal lubrication. In one treatment they combine at very low cost, all the advantages of Bran, Agar and Mineral Oil. The little seeds are taken with the meal as an accessory food in the diet. Leading stomach specialists recommend them.

Don't let constipation, which is simply another name for faulty elimination, destroy your vitality and lessen your joy of living.

We will gladly send free a booklet, entitled, "What a Noted Authority Has to Say Regarding Blond Psyllium Ovata, in the Treatment of Constipation." Send for this at once. If Psyllium Ovata does not do what we claim for it, get your money back and no charge for what you have used.

Price: 12-oz. pkg. 35c, 3 lbs. for \$1.05. 5 lbs., sufficient for two months' treatment, \$1.50, prepaid.

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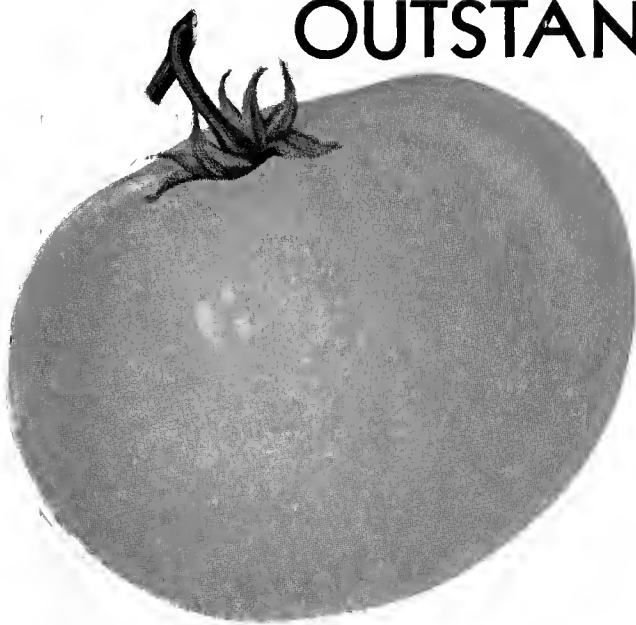
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A distinct new variety — rich orange color—large fruits and solid meat. Very appetizing and a heavy yielder. Pkt., 20c; ½ oz., 50c; oz., 90c; prepaid. See page 25.

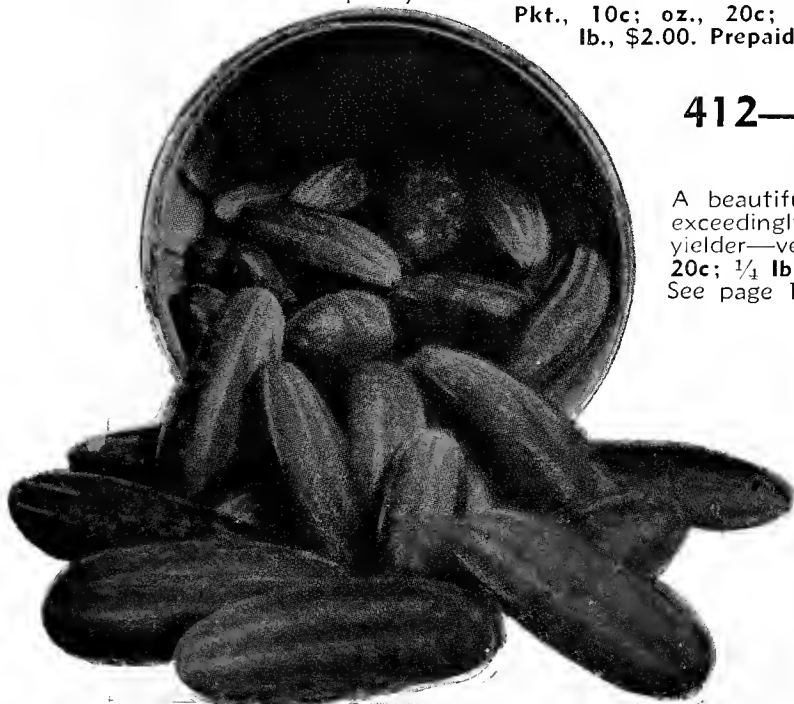
166—Super Snowball Cauliflower

Very finest strain Danish grown Cauliflower. Solid heads—fine grained. A big yielder and a money maker for market. Pkt., 20c; ¼ oz., 75c; ½ oz., \$1.25; oz., \$2.25. Prepaid. See page 7.



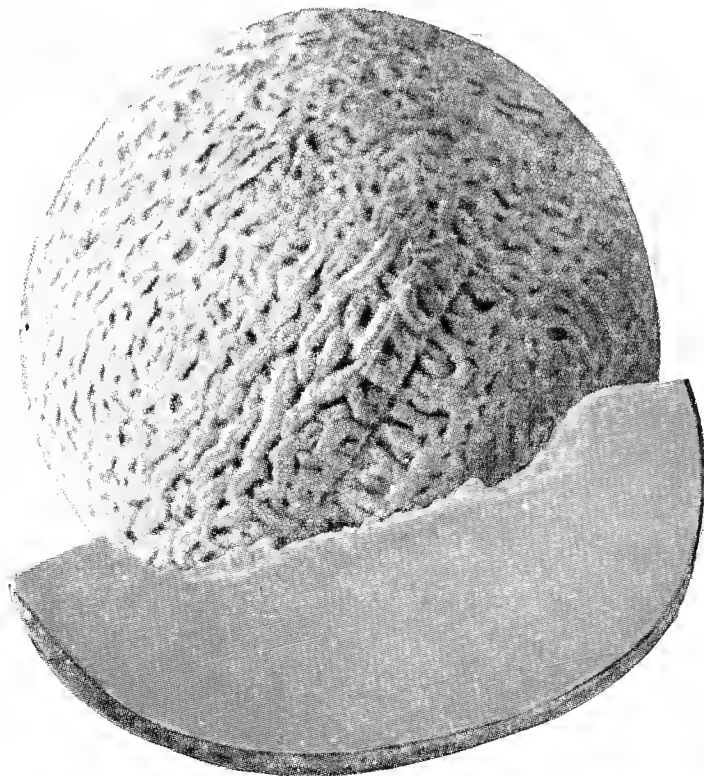
266—Clarks Special Hybrid White Spine Cucumber

A new main crop variety, 8-10 in long—very uniform—excellent quality. Holds color and firmness for shipping. Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., \$2.00. Prepaid. See page 9.



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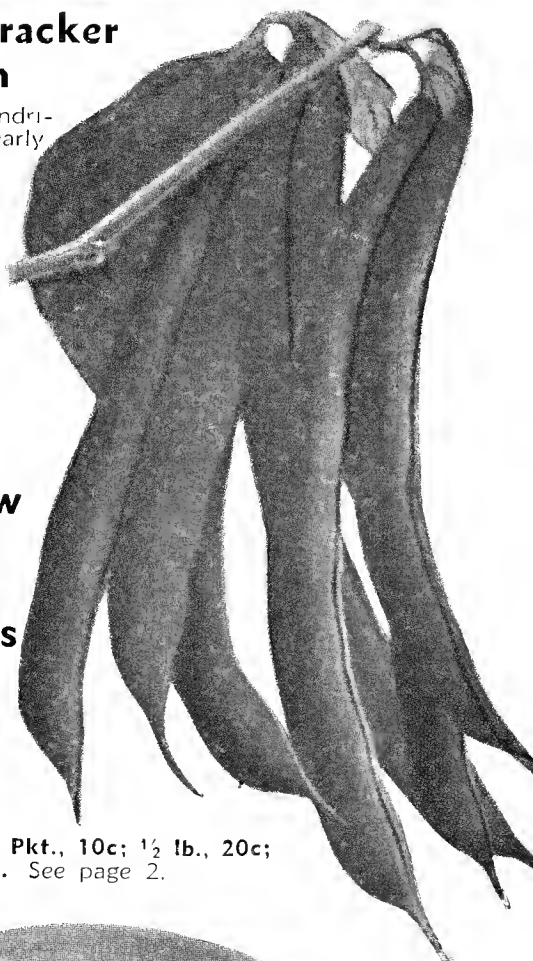
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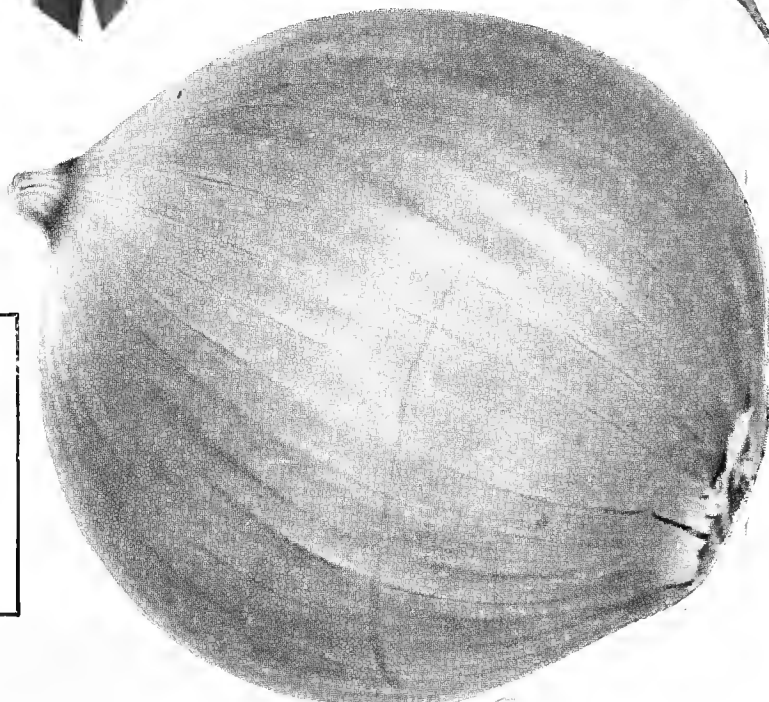
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Always tender and snappy—finest early green Bean for market. Absolutely stringless. Pkt., 10c; ½ lb., 20c; lb., 35c. Prepaid. See page 2.



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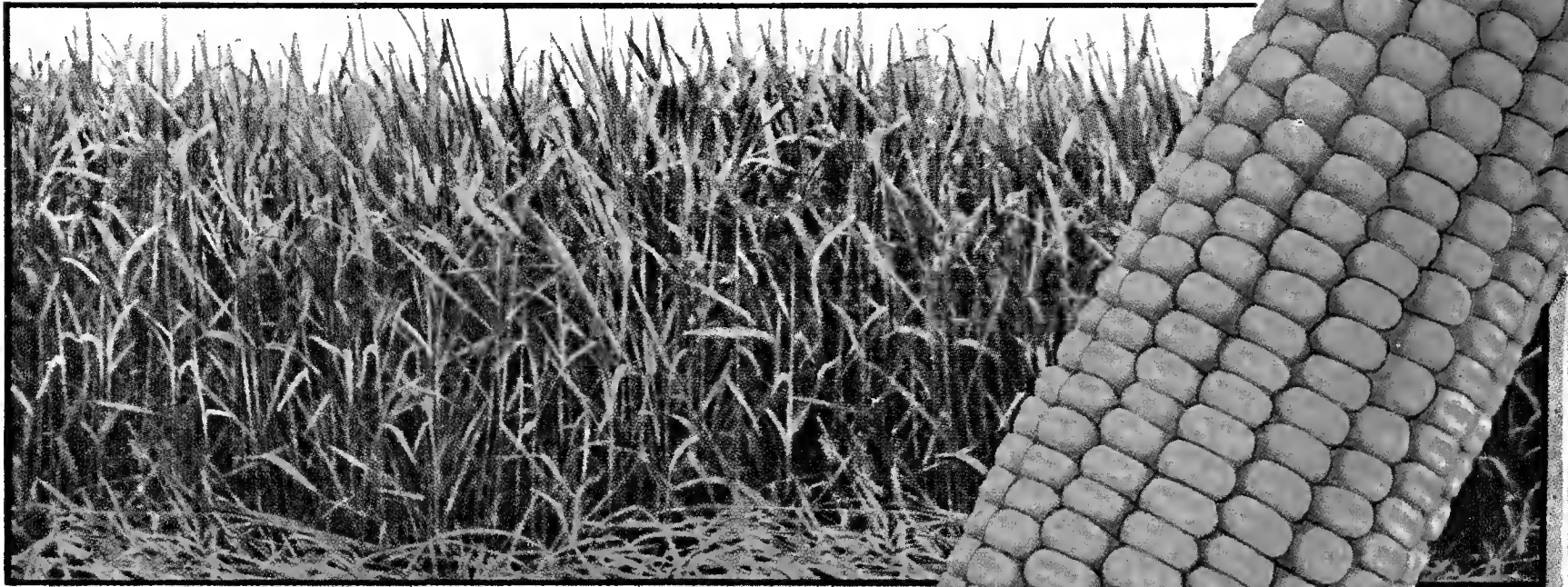


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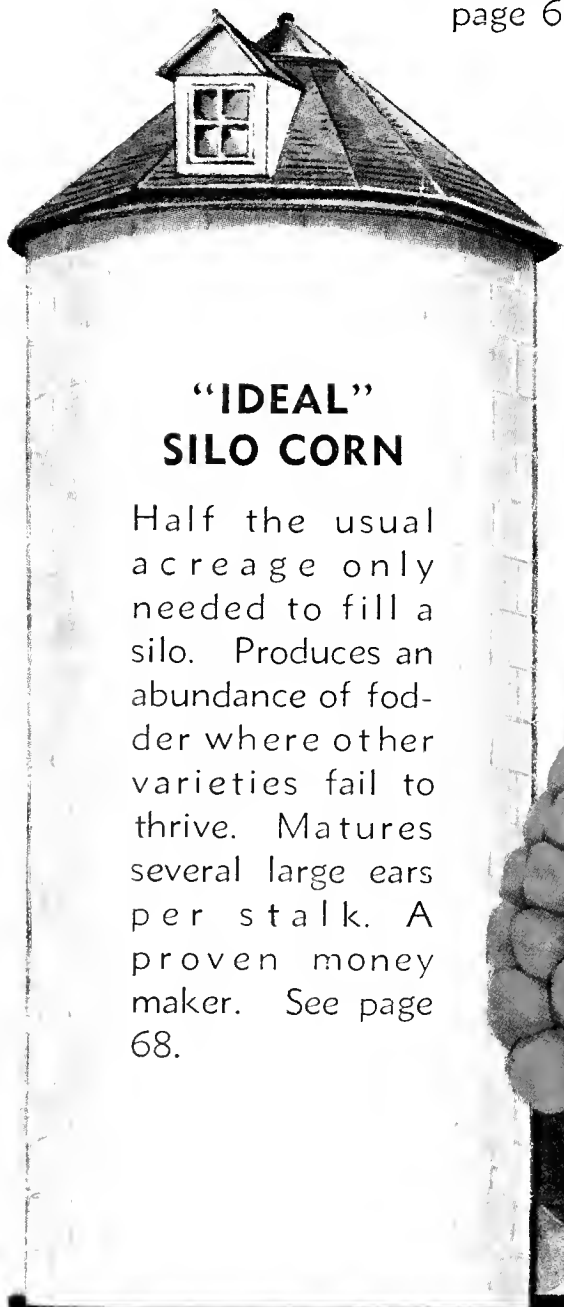
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